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Key Skills

◆ Programming Languages

C#, Java, C++, F#, ML, Ruby, JavaScript, TypeScript, Scala, PowerShell, Python, XML, HTML, CSS

◆ Frameworks

.Net, .Net Core, Asp.net, WCF, WF, Web API, AngularJS, ReactJS, Bootstrap, Entity Framework, Dapper, NodeJS, RFID, .Net Remoting, Socket Programming, AJAX, NHibernate, TPL, RX.Net, Azure App Service, Azure Service Bus, Azure Functions, Azure Automation, ActiveMQ, RabbitMQ

◆ Concepts

Algorithms and Data Structure, Distribute Systems Architecture, Object Oriented & Functional Programming, Event Driven Programming, Aspect Oriented Programming (AOP), Service Oriented Architecture, Microservice & Serverless Architecture, Domain Driven Design, Design Patterns, REST, CQRS, Event Sourcing, IOC, DI, DSL, OAuth, SAML 2, OpenID

◆ Methodologies

Agile, Scrum, Kanban, MSF, RUP, XP, TDD, UML, Secure SDLC, OWASP

◆ Database Engines

SQL Server, Azure SQL, MongoDB, Redis Cache, ElasticSearch, PostgreSQL, Azure Storage, SQLite

◆ Development Tools

Visual Studio, Visual Studio Code, Git, GitHub, NUnit, NCover, TeamCity, OctopusDeploy, Fiddler, Wireshark, Postman, Azure Resource Manager, DebugDiag, Raygun, NewRelic, Jira, Vagrant, Packer

◆ Languages

English, Arabic

Summary

Accomplished leader, architect, and technical evangelist with a strong and functional knowledge of core enterprise systems and architectures in multiple domains including SaaS Cloud Platforms, CRM Solutions, Government Gateways, Talent Management, Healthcare Management, E-Commerce, and E-learning Solutions. Proven track record of over 15 years of broad, deep, and rich software development hands-on experience and strong academic background in evaluating, implementing, evolving, and governing hardware, software and solutions. Creative professional with extensive support in the overall enterprise architecture across multiple lines of business, developing and driving short/long term architecture strategy, providing cost effective solutions, and supporting the development of architecture principles, styles, patterns and standards.

◆ Core Competence

- **15 years** of experience in **enterprise architecture** on MS Stack **.Net, C#, ASP, and SQL Server**.
- **5+ years** of experience in delivering cloud first solutions on **Microsoft Azure cloud** platform.
- Hands-on diverse programming and technology platforms including Object-oriented languages (**C#, Java**), Functional Programming Language (**F#, Scala, ML**), Scripting Languages (**JavaScript, Ruby, PowerShell**), and RDMBS (**SQL Server, MongoDB, PostgreSQL**).
- Deep understanding of **distributed system architectures** for vertical industry solutions and LOB applications with focus on developing and delivering large scale platforms.
- Technical leadership in key technologies such as **SaaS enterprise cloud solutions**, Data **Warehousing**, **Business workflow** platforms, **Microservice** Architecture, **Content Management**, **Indoors geo-locating** platforms using **RFID**.
- Hands-on experience managing various aspects of enterprise solutions, such as Service Level Agreements (**SLA**), Business Continuity Plans (**BCP**), and Disaster Recovery Plans (**DRP**).
- Hands-on experience designing, building, and maintaining **Continuous Integration and Delivery pipelines (CI/CD)** and **DevOps Platforms**.
- A Strong handle on software building process, by establishing metrics, procedures, and mechanism to improve deliverable's quality and building **highly efficient teams**.
- Solid background in **project management** processes; experience designing and running reliable, and predictable software development lifecycle within an **agile** iterative framework.
- Orchestrated and lead diverse technology oriented activities across **culturally and geographically disparate** teams and customer bases.

Achievements

◆ GoFormz's Data Capture Platform

As a lead architect, I was tasked to develop a scalable architecture & implementation strategy for the growing business and new business initiative of Enterprise Ready Platform <https://goo.gl/82XH4k>. I was responsible for the overall application, data, and system architecture of the company's **SaaS cloud hosted platform**. I designed a reference architecture for **SOA** enterprise solution and an implementation strategy on key pillars such as small automatable **microservices**, **domain driven design**, **polyglot data storage strategy**, and automated Delivery and **Devops platform**.

- I developed a distributed scalable **microservices reference architecture** as a transformation plan, documenting challenges, risks, opportunities, alternate solutions, and timeline.
- I designed and contributed to implementing identity management framework to handle authentication flows; designed to support **OAuth2/OpenId & SAML2** protocols. Developed on **C#, Owin, Web APIs, Identity Server**, with integrations to **AAD**, and **OKTA**.

- I modeled platform's permission & authorization over **RBAC standards** and contributed to implementation of core permissions service to control resource access, it was built to load resources into distributed cache **Redis** and query user access permissions.
- I designed & implemented internal **API gateway** providing reversed proxy entry point to all microservices; handling cross cutting concerns such as authorization, auditing, and **distribute transaction** using **Sagas**. Built on **Owin, REST APIs, Redis, Azure Service Bus**.
- I designed & Implemented internal development platform, including **resilient fault tolerant services, Throttling engine** for APIs rate limiting, **distributed transaction** management using **sagas**, structured logging, and data management using **Event Sourcing/CQRS**.
- I designed & contributed to implementation of Continuous Integration and Delivery **CI/CD pipeline**, using several tools & frameworks to automate release process including **TeamCity, OctopusDeploy, Ruby Rake, PowerShell**, and **Azure Resource Manager Templates**.

◆ GoFormz's Application Integration Platform

Leading the engineering group, I envisioned and designed the company's **integration strategy**. I was responsible for the overall architecture of application integration platform <https://goo.gl/4hw9NY>. With my team I built an extensible application development platform used by 3rd party integrators to build integration workflows, offering complete end-to-end data capture & automation experience through application platform. Applications including but not limited to **Salesforce, Box, Ignite**, and **Google Suite** were built, hosted, and ran on app runtime.

- I designed & implemented application framework, used by 3rd parties to build custom applications; offering **application metadata** definition, **versioning protocol, distribution marketplace**, application's unit of work execution engine, and authentication framework.
- I designed & implemented an application runtime **cluster management algorithm** to balance and distribute work load between nodes based on application availability and current capacity using **node election patterns**, and **azure service bus messaging distribution**.
- I designed & implemented application runtime node **resiliency algorithm**, handling failure of long running commands, retries, timeouts, fail fast for corrupt commands using **circuit breaker**, and **capacity distribution** using **bulkhead pattern**.
- I designed & implemented application runtime node **metric tracking framework**, measuring key metrics as number of commands executed, failed, retried, in a non-blocking manner using **.Net TPL, Rx**, and propagating data to dashboard built using **AngularJS**.
- I contributed to design and implementation of backend services (**C#/REST APIs**) and data stores (**MongDB, and Azure Storage**) for application metadata & binaries storage, providing backbone for application marketplace, and application developer portal (**ReactJS**).
- I designed & contributed to the implementation of **workflow engine**, empowering clients to define **business workflow** over data captured by GoFormz platform. I implemented **DSL compiler** to interpret workflows and translate it into **.Net IL code**.

◆ Cornerstone's Edge Platform

As a member of platform team, I contributed to the design, architecture, implementation, and delivery of Edge platform <https://goo.gl/zf2uD1> Cornerstone foundation of its **Platform-as-a-Service (PaaS)**. Enabling 3rd party developers to build and monetize business application on company's talent management application platform. I was responsible of **domain language suite**, and **application execution cloud runtime**.

- I developed application's development language (Shelby), implemented and delivered **Language DSL compiler** which generate intermediate platform language instructions to coordinate application actions throughout platform services.
- I co-designed and implemented Edge platform execution intermediate language, and built **platform runtime virtual machine** to execute and coordinate application instructions on platform's cloud services.
- I contributed to implementation of platform data services engine to translate **OData 4.0** queries into in-memory object graphs described in **C# Expression Trees** and Compiled Queries for optimized data retrieval pipeline.
- I was a key member of small architecture group responsible for the overall platform design, implementation, and delivery using **microservices**. I developed many core services offered by the platform such as language, runtime, and cluster management services.

◆ Cornerstone's Transformation Platform

Working with the data migration and transformation team <https://goo.gl/WDYgUW> I was responsible for architecting next generation solution for mass data load & transformation from external systems. Challenged by defining complex transformation client's workflows, efficient, and operate at hundreds gigabytes scale. I envisioned and built a platform for defining data transformation rules runs at mass on a large scale.

- I designed Lambda a **data transformation language** used by developers to write data transformation rules similar to the specification defined by business analysis team; I built **DSL compiler** to interpret Lambda's rules to an optimized **IL** executed by runtime.
- I designed and built Rules Engine service written in **C#, WCF**, and **MSMQ**. Used by data transformation compiler to efficiently organize rules and create an **execution plans** for data to be loaded into system.
- I contributed to implementation of data wizard, used by clients to create, schedule, and manage, data transformation workflows.

◆ GE Healthcare's Smart Room

As part of research & development group, I worked on building GE's innovative next generation of hospital's smart rooms, to help health professionals identifying & mitigating patient safety risks while offering meaningful solutions to improve patient outcomes. I was responsible for designing and developing services collecting sensory information from different room hardware sensors.

- I contributed to architecture and development of real time locating system **RTLS**, writing parsing engine to digest **RFID** tag's beacons over several protocols **Radio Signals, Infrared**, and **Ultrasonic** from different vender such as **RFCode, Aeroscot, Cisco**, and **Centrack**.

- I designed & implemented a pluggable **RFID** service, to interact with low level sensory from RTLS, designed using a **PubSub** to scale out for millions of beacons, then distribute to consuming apps. Built on **C#, .Net, Multithreading, WCF, Socket APIs, and ActiveMQ**.
- I was lead developer behind GE & Cisco project to its unified wireless network & context-aware software to manage flow of patients and medical assets. Bridging gap between WiFi sensory & RTLS systems, combined into one tracking solution. <https://goo.gl/2mgY6f>
- I implemented **indoor geometry locating algorithm** used by **RTLS server** to locate moving human & equipment indoors, using **triangulation & proximity algorithms** achieving high locating accuracy used by hundreds of health facilities around the world.

◆ GE Healthcare's AgileTrac Hand Hygiene Platform

I was lead architect & engineer developing framework to accurately record, measure, and report hand-washing data throughout care facilities. Providing compliance platform for hand hygiene opportunities visualized using comprehensive metrics dashboards to determine success of facility's sanitization program. <https://goo.gl/CHzfh5>

- I architected & built **RTLS** for interacting with employee's badges and sanitizer dispensers **RFID** beacons. I worked closely with Chief Hardware Designer to build data transmission protocols over wireless network using **Sockets APIs, WCF, C#, and ActiveMQ**.
- I contributed to the design & implementation of the core algorithm responsible for calculating hand hygiene missed opportunities, using **proximity and probabilistic algorithms**.
- I contributed to design & development of many services used by server to aggregate, store, and distribute information using **C#, ASP.Net, WCF REST, SQL Server, ActiveMQ, and Data warehouse**.
- I contributed to development of Platform interactive online dashboards designed for different users to monitor compliance workflow developed based on an **event-driven architecture** using **C#, Reactive Extensions (RX), WCF, SQL Server, SSRS, and ActiveMQ**.

◆ Nuance's OmniPage 16

Working with Microsoft & Nuance I was responsible for developing MS Office integration with **world's #1 OCR software** <https://goo.gl/Bf4Q6p> I developed an efficient service to interpret the output of **OCR engine** to newly developed standard **Open-Xml** office document format.

- I designed & developed interpreter to process binary files built by **OCR engine** to **Open-Xml** document structure using **C++, C#, XML**.
- I developed packaging component to compress generated Open-Xml artifacts on MS standards generating readable office document.
- I contributed to the development of **OmniPage SDK** to enable OCR engine integration with **MS Workflow Engine** using **C++, C#, WF**.
- I contributed to the development of **OmniPage office designer** to customize document generation output using **C++, C#, WinForms**.

◆ Saudi's National eGovernment Portal (Yesser)

As a senior software engineer, my team and I were responsible for design, architecture, and development of various module in the ambitious multi-million dollars program of Saudi Arabia to transform governmental workflow and transaction electronically. <https://www.saudi.gov.sa>

- I contributed to the design & development of national commerce module, managing millions of trade transactions verification and auditing. Solution developed using **C#, Asp.net, JavaScript, and SQL Server**.
- I contributed to the design & development of the national election module, managing local provenance assembly elections, the module handled voting process, candidate and voters registrations and verification following governmental workflows.

Professional Experience

◆ Director of Engineering/Architect

GoFormz Inc. • <http://www.goformz.com>

A mobile forms & reporting solution used by businesses to replace paper forms, resulting in more accurate data, streamlined workflow and comprehensive reports.

- Leading software engineering teams, establishing development and architectural standards, designing and applying data metrics to measure and determine readiness, quality, and operability of software teams, products, and systems.
- Chief architect, leading design, architecture, and build of company's next gen **SaaS** data capture and automation cloud platform.
- Leading design, architecture, and development of company's distributed **microservices** platform, migrating a monolithic application into a highly scalable service oriented platform (**SOA**) with a domain driven design (**DDD**).
- Establishing efficient DevOps platform to manage, monitor, deliver, and orchestrate growing distributed microservices cloud platform.
- Leading design and development of security platform, including **identity management, authorization and permissions management, identity provisioning**, integration with external providers (**SSO**), **vulnerability management**, and **risk assessment** processes.
- Developing and Managing **Engineering Team talent acquisition**, budget, and overseeing **infrastructure costs and provisioning** process.
- Working closely with security and compliance officer to ensure software application development in compliance.
- Managing, and Guiding **Devops & DBAs** to design and implementation of **infrastructure monitoring, system recovery, database index maintenance, data retirement, data transformation, and infrastructure cost /usage** processes.
- Contributing to the design and implementation of **business continuity plan, disaster recovery procedures, incident management** process, and **vulnerability and risk assessment** process.

Oct, 2015 – Present

San Diego, CA USA

◆ Principle Engineer/Architect

Cornerstone OnDemand • <http://www.cornerstoneondemand.com>

(NASDAQ:CSOD) is a global leader of cloud-based talent management software solutions. Over 9.4 million users across 180 countries.

Oct, 2012 – Oct, 2015

Santa Monica, CA USA

- Designed & built Cornerstone Edge, cloud computing HR **Platform-as-a-Service (PaaS)** solution providing clients, partners and 3rd party developers with easy-to-use tools and services for quickly creating and deploying existing application on Cornerstone's platform.
- Designed, envisioned, and built Edge Platform **domain specific language DSL** code name "Shelby" - including **Parser, Compiler's frontend, Compiler's backend, Compiler Services, IL, Virtual Machine, and Runtime Stack**.
- Lead Cornerstone Edge's platform DSL (Shelby) development and delivery of language suite of tools on Cornerstone **PaaS** solution.
- Designed, built, and delivered **OData v4.0** language internal compiler and runtime.
- Designed, built, and delivered data loads platform for large volume data integration workflows.
- Envisioned, designed, built, and delivered Data Platform Integration DSL (Code name: Lambda), and toolset. A domain specific full featured data first, **functional language**, to design and build workflows and data integration scenarios in a fully descriptive manner.

Projects

- **Edge Platform:** Cornerstone foundation of its Platform-as-a-Service (PaaS). Enabling 3rd party developers to build and monetize business application on company's talent management application platform. Built using C#, DSL, Asp.net, IL, SQL Server, REST, WCF.
- **Transformation Platform (DLW):** The next generation solution for mass data transformation and load from external system into company's talent management platform. Built on C#, Asp.net MVC, MSMQ, DSL, WCF, REST, and IL.
- **Applicant Tracking System Data Load:** Applicants tracking system historical data loads Module. Built using C#, Asp.net MVC, Entity Framework, T4, Bulk Load, and SQL Server.

◆ Lead Engineer/Architect

General Electric • <http://www.gehealthcare.com>

Global provider of software, hardware, and services in infrastructure & manufacturing solutions. Serving more than 20 industries manufacturing.

Oct, 2010 – Oct, 2012

Richmond, VA USA

- Drove architecture, vision and design for projects; balancing implementation complexity, risks, manufacturability, serviceability and quality requirements.
- Led project design activities and design control process from requirements development, design planning to design transfer.
- Led development of verification planning and execution.

Projects

- **AgileTrac Hand Hygiene Platform:** GE's hand hygiene compliance monitoring solution for large hospitals and facilities to monitor clinicians and nurses hand wash compliance. I was the technical lead for the data acquisition and processing team, worked on the compliance algorithms and the data filtering and smoothing algorithms using C#, RFID, IR, RTLS, ActiveMQ, WCF, REST, Reactive Extensions (RX), MEF, Multithreading, SQL Server, ETL, and SSRS.
- **GE Smart Room:** GE's next generation of hospital's smart rooms that helps health professional to identify and mitigate patient safety risks while offering meaningful solutions to improve patient outcomes. I worked with GE Research Group (GRC) to bridge RFID technology with software solutions; developing algorithms for indoors object locating and data processing using C#, C++, ActiveMQ, RFID, IR, and Ultrasound.
- **AgileTrac OR Boards:** Pacu, PreOp, and Family Waiting Rooms large display boards for patient's information. Built using C#, WPF, ActiveMQ, PRISM, Entity Framework, and SQL Server.
- **AgileTrac Messaging Framework (AMF):** A unified generic messaging layer agnostic to specific messaging technologies like AMQ, MSMQ utilized by AgileTrac Service platform and other products developed by various GE teams for temporally loosely coupled communication scenarios. The framework supports different messaging patterns such as pub/sub, request/reply. Built using C#, .Net, WCF Web API, Reactive Extensions (RX), and MEF.
- **AgileTrac DataMart's Platform (F3):** a framework to manage hospital Transport, EVS, Bed Management, and Patient Service statistical data and persist it in a data mart store, and offer dynamic and future predictions reports about facility status with a variety of delivery mechanisms including emails, pagers. Built using C#, .Net, Entity Framework, ActiveMQ, WCF, REST, SSRS, and XSLT.
- **RTLS Cisco MSE Context Aware RFID Platform:** A unified RFID WIFI solution between GE's RTLS RFID server and Cisco Context Aware RFID Platform to consume RFID wireless devices, RFID Tags, and Rogue Clients data. Applied indoor geometry locating algorithms to locate device location. Built on C#, .Net, Threading, WCF, Web Sockets, REST, SOAP, Indoor spatial algorithms.
- **Hospital RFID Server (AgileTrac RTLS):** Building RFID/RTLS server as part of GE's Hospital Tracking Suite AgileTrac, leveraging various RFID tag tracking technologies such as Radio Signals, Infrared, Ultrasonic, etc... Integrating with different RFID tag vendors such as RFCode, Aeroscot, Cisco, and Centrack. Design, architect, and develop data provider/consumer model that promotes RTLS Server as a hub between RFID devices and object tracking application suites. Built on C#, .Net, Threading, Service Bus, REST, WCF, netTcp, .Net Socket APIs.
- **IVR Hospital's Transport and Cleaning Tracking Solution (Wex):** Bringing interactive voice response and recognition to GE's Hospital Tracking Suite AgileTrac. Building web extension interface layer to integrate with PlumVoice's IVR solution using C#, .Net, Threading, WCF, netTcp, and SQL Server 2005.

◆ Lead Engineer

Bluebridge Technologies • <http://www.Navax.at>

Actively growing software house in Europe, Austria providing software solution, consultation and training with set of professionals MVPs and as Certified ISV. Acquired by NAVAX Consulting AG in 2009.

May, 2007 – May, 2009

Cairo, Egypt

- Led Designing, Architecting, Development, and Deployment of the products.
- Managed Project Scope, Schedule, Quality, and Resources. Tracked project progress and created status reports.
- Communicated with customers on daily basis to help define product scope and requirements.
- Provided client training using live sessions and webcasts on how to use and extend the product.
- Led a team of 10 developers to design, architect, develop, test and support products for customers in North America and Europe.
- Contributed to building teams, software development life cycle, and performance optimization processes.

Projects

- **A Software Development Framework (Babel):** An Agile secure SDLC framework for building enterprise software solutions, developed with best practices and guidelines from well-known iterative methodologies in mind.
- **Employee, Equipment, and Process Management and Workflow Engine (EMALC):** Business workflow platform for the largest telecommunication company in Austria *Kapsch BusinessCom* <http://www.kapsch.net> Built using C#, SharePoint, netTCP, MSMQ WCF, WF, WSE 3.0, Entity Framework, and BizTalk 2006.
- **OCR Workflow Framework (partnership with Microsoft):** An OCR framework offers a full automation platform for image scanning and text transformation using *OmniPage Capture Software Development Kit v16 (CSDK16)* and windows workflow foundation.
- **HR and Employee Management System (BankPrivat):** HR internal system for Bank Privat (Vienna). Built using C#, SharePoint, WCF, MSMQ, WF, NHibernate, JQuery, and SQL Server.
- **Data Warehouse and Archiving System (KMOSS):** Internal file archiving and indexing portal to facilitate search capabilities for other systems on the same intranet. Built on SharePoint, C#, MSMQ, WCF, WF, COM+, and Microsoft Dynamics.
- **OCR System (partnership with Microsoft):** Delivering version 16 of the number one OCR software in the world *OmniPage*, our team was responsible for introducing office 2007 format support into *OmniPage16* using .Net, C#, C++/CLI, Native C++, OXML, XML.

◆ Senior Software Engineer (Part Time)

SilverKey Technologies • <http://www.silverkey.us>

Multinational software house with its head quarter based in Chicago and with more than 5 branches spread over the world.

Nov, 2006 – May, 2007

Cairo, Egypt

- Contributed to envisioning company's built in house commercialized content management system named "Havana".
- Participated to writing the products requirements and specifications.
- Led the design and architecture process of company's CMS product.

Projects

- **Havana CMS:** A content management system for publishing web content. It was built on a MVC web application framework using C#, Asp.Net, Ajax, and SQL Server; offering content API, URL mapping, and faceplate for input, templating engine and scriptability

◆ Senior Software Engineer

Bluebridge Technologies

- Researched, debugged, wrote and tested new software programs.
- Investigated new technologies & created technical specifications and test plans.
- Helped my team to design, architect, test, and deliver software products.

Projects

- **Enterprise Client/Server Real Estate Agent System (Taipch):** Connecting different Real Estate agents to main server, giving them access to market opportunities, stats, and property marketing platform. Built on C#, netTCP, MSMQ WCF, CAB, and WF.
- **Job Search Web Portal (Chaoops):** Employers job requisition management platform offering wide variety of services such as advanced indexing services, video resume, web page, connecting to social networks, and others. Built on C#, MOSS 2007, WCF, WF, and SQL Server.
- **E-Business Web Shop (Componet):** Electronics e-business web shop. Integrated web services using WCF HTTP Bindings, C#, and Asp.net.

May, 2006 – April, 2007

Cairo, Egypt

◆ Senior Software Engineer

Arcom • <http://www.arcom.com.sa>

100% Saudi Partnership Company, established in KSA with the sole intention of providing IT services to governmental and private sectors.

Sep, 2005 – June, 2006

Cairo, Egypt

- Developed information monitoring enterprise system along with monitoring clients for Ministry of Security in KSA.
- Developed KSA government web gate which offers various governmental services for millions of citizens of KSA.
- Worked with my colleagues to build backbone infrastructure for company portal and various governmental systems within CMMI management framework.

Projects

- **The Kingdom of Saudi Arabia electronic online gate.** The portal offered government services to KSA citizens; receiving and processing millions of transactions monthly. Built using, C#, ASP.net, SQL Server.
- **Enterprise Information Monitoring System** and Agent Clients for Ministry of Security in KSA to monitor and process millions of transactions. Built using, C#, ASP.net, .Net Remoting, COM+, WSE, SQL Server.
- **E-learning web portal** for Army Academy in both Egypt and Saudi Arabia. Built using, C#, ASP.Net, XML, SQL Server.

✦ Software Engineer

Bayan-Tech • <http://www.Bayan-tech.com>

A Pioneer company in fields of Technical Localization, E-learning, Website Localization and Technical Testing.

- Developed, tested, deployed, and supported Company web portal and e-learning modules.
- Developed, tested, and integrated different infrastructure application modules in various frameworks.
- Investigated new technologies & created architecture documents and test plans.

Projects

- **CMS Web Portal for Mobiles:** Company web portal based on C#, ASP.net, SQL Server.
- **E-Learning Editor (XEdit):** Xml editor to help developers, designers, translators to create e-learning modules for Nokia Mobile phones.

May, 2003 - Sep 2005

Cairo, Egypt

Education

✦ Degrees

- **Master of Science in Computer Science**, MSC Jan 2012
Maharishi University of Management • Fairfield, Iowa
- **Bachelor of Science in Computer Science**, BSC May 2004
Minufiya University • Egypt

✦ Professional Certificates

- **Project Management Diploma (PMP)**
Training in RITI (Egypt) from Oct 2007 to Mar 2008
- **Microsoft Certified Professional (MCP)**
- **Microsoft Certified Technology Specialist (MCTS)**

Publications

✦ Speaker

- **Kalam Falsa Podcast (Founder & Host):**
<https://kalamfalsa.wordpress.com> A Weekly podcast in Arabic discussing philosophical topics such as knowledge, consciousness, identity, ethics, belief, justice and aesthetics. From Ancient Greek Philosophy, to Arab's Kalam Philosophy, to Modern western philosophy.
- **Ask Developer Podcast (Co-Founder & Host):**
<http://www.askdeveloper.com> An online audio/video podcast for technology & programming enthusiasts, the podcast is in Arabic and targets the Egyptian & Middle Eastern audience.

✦ Presenter

- Developing Scalable Microservice Distributed Platforms.
- Compilers Construction.
- Building Domain Specific Languages.
- Data Transformation & Validation Rules Engine.
- Highly Efficient Agile Teams.
- Monthly Engineering Briefing at GoFormz Inc.

✦ Writer

Several articles, and publications on my personal blog such as WCF in 10 minutes, What's new in CLR 4.0, Agile+, The Future of Programming Languages, Multicore Just-in Time, Unit Testing Wisdom, and others. All articles can be accessed on my personal blog. <http://www.eknowledger.com>