

Hisham Arafat Shehata

Profile

Digital Transformation Lead Consultant, Researcher, Master Principal Solutions Architect and Agile Program Manager possesses over 23 years of professional engineering and information technology hands-on experience in leadership, technical and consulting roles. Conducted 100+ solid engagements to key customers across Middle East, Africa, Far East, Europe, South America and USA applying enterprise class industry applications and technologies. Experience and background in different industries including Engineering & Construction, Industrial Manufacturing, Retail & Distribution, Oil & Gas, Utilities, Supply Chain & Logistics, FS, Transportation and Telecom, Government/PS/NGOs, Agriculture, Healthcare.

Work History

March 2016 - current

Middle East and Africa & Global

Digital Transformation Consulting Director, Innovay.io

Solutions Architect, Technology Strategist & Research Engineer

- Lead Digital Transformation Consultant providing solutions and services for several multinational and regional organizations in Real-time Analytics, Big Data, Data Sciences, AI & Deep Learning, Internet of Things (IoT), Cloud Native Applications, mobility solutions. Implemented solutions for three customers in Automotive, Telecom and Healthcare.
- Designing and implementing distributed computing peer-to-peer, decentralized solutions using variety of Blockchain technologies & DLT platforms currently handling business applications of immutable digital assets, biometric digital identities, auditing & tracking and smart contracts.
- Architecting and implementing large scale Internet of Things (IoT) solutions for municipality risk and crisis management using UAV drones, computer vision, deep learning, massive data streaming, distributed analytics, Blockchain and real-time integration technologies for governmental sector.
- Program Development Director for Big Data & Data Science at Nile University and contributor to the projects and research activities related to this area of specialty. Teaches Big Data & Data Science postgrad courses for NU CIT School in addition to several other universities.
- Teaching TTT hands-on workshops on IoT, Cloud-Native, Big Data Engineering, Data Science and Digital Transformation in Academic-Industry relations for universities across EMEA region working with professors from different disciplines to boost their skills in advanced technologies and teach it back to students.
- Contributing applied Big Data and Data science expertise to researches in Bioinformatics GENOM Copy Number Variation on Apache Spark, Smart Agriculture and Digital Cities, Transportation, Logistics and Supply Chain Optimization using deep learning models.
- Agile coach, trainer and organizational transformation agent using DevOps, Scrum and Lean Kanban – working on an innovative model that extends Agile practices to business and marketing of startups.
- Architecting enterprise cloud native solution for United Nation ECA and CAMPMAS to implement the mobile technologies for effective policy and decision making through data models.
- Facilitator and Instructor for professional hands-on workshops covering the following key topics:
 - Digital Transformations Strategies to Implementation, Data-Driven Models, Business

Transformation and Organizational Frameworks including Agile, DevOps, SCRUM, Lean KANBAN, Nexus, LeSS and EBM.

- Practical Data Science using Statistical Analysis, Machine Learning, Data Mining and Deep Learning/AI techniques including building real-life data-driven transformation models.
- Big Data Solution Engineering on Apache Hadoop Ecosystem Platforms like Cloudera, Hortonworks, MapR and Pivotal - Spark, HAWQ, Greenplum, MADLib, Flink, Storm, Giraph.
- Real-time enterprise software-defined applications development using high performance technologies and frameworks like Cloud Native, Cloud Foundry, IoT, Kafka, RabbitMQ, Gemfire, MongoDB, Firebase, Redis and Spring.
- Distributed computing and network programming for connected systems including Blockchains / DLT, Internet of Things (IoT), Embedded Systems, Machine-to-Machine (M2M) platforms and solutions.
- Train of the Trainer Courses on above topics to industry professional trainers and academic professors including tips to deliver to different level of audiences.

March 2011 - Feb 2016 **Dell EMC Corporation** **Europe, Middle East & Africa / Global**
Technical Program Manager, EMEA Applications Consulting

- Focusing on the practice of enterprise business applications, Big Data, Analytics, Data Science and Cloud Native solutions design & implementation for enterprise engagements, in EMEA region using Agile Scrum and EPM2 (a PMP dialect). Responsible for strategic customer engagement activities and ensuring project managers / teams are aligned to the engagement scope, value and common practices. Conduct team enablement from vertical business / domain, solution and architecture point of view.
- Developed strategic expertise in evolving technologies, Pivotal stack and 3rd Platform digital applications transformation enablers including Microservices, DevOps, Continuous Integration, Cloud Foundry / Cloud Native, Big Data Architecture, Mobility, HPC, Hadoop, Spark, Flink, Storm, RabbitMQ, Docker, R, Madlib, Data Sciences, Data Mining & Machine Learning, Spring, HBase, Greenplum, HWAQ, DCA & VBlock, Isilon, Virtualization & Cloud, Real-Time Integration (RTI), MongoDB, Gemfire and Redies.
- Engagement in hot verticals deeper domain knowledge including Logistics & Transportation, Telecom, Retail FMCG, Internet Social, eHealthcare, Government Services, Manufacturing.
- SME, Architect & Global Consultant Instructor (Mar 2011 – Aug 2014): conducted 50+ hands-on workshops worldwide covering emerging Big Data, Data Sciences, Cloud Computing and 3rd platform enablers for key customer and partners on both management and technical levels.
- Global contribution in team building and practice development for EMC sales, pre-sales, CTO office engineers, product support, marketing, customer engineers, project managers, implementation consultants & partners, EMC public speaker, contributor to EMC innovation, research and academic alliance programs.

May 2005 - March 2011 **Oracle Corporation** **Middle East & Africa**
Master Principal Solutions Architect / Applications Manager

- Led the solution architecture and applications technology engagements across Middle East & Africa (MEA) for mega customer engagements. Playing major role in positioning innovative solutions that aligning customer strategy, industry business drivers & value chain and Oracle

products from architecture perspective including cross-products solutions and integration with third party solutions.

- Established the enterprise solutions architecture competence which empowered our regional business growth and industry leadership. Awarded as the first Master Principal (IC5) Solutions Architect in Middle East & Africa organization by Oracle EMEA board of directors in recognition of my unique skills and achievements in this domain.
- Leading a team of applications consultants to engage with key customers in architecture development & strategy workshops, RFP/RFI/proposals, solutions demonstrations/presentations, enterprise architecture healthcheck assessments and implementation partners' engagement.
- As member of Oracle EMEA ISA / ATA Solutions Architects group, I've acquired great deal of experience in developing enterprise multi-pillar industry solutions combining the power of financial management, procurement, projects portfolio management, HCM, CRM, MDM, EPM, demand management, manufacturing, DW BI Analytics, database grids, SOA, BPM & integration, identity management & security, enterprise management, collaboration, embedded technologies and underlying infrastructure & hardware platforms; end-to-end full stack solutions architect.
- Worked along 2+ years as OU consultant developing & delivering advanced hands-on training workshops for strategic Oracle customers and partners in Egypt and African operations presenting to C-level as well as business users & IT specialists. Represented Oracle in many public events as speaker in advanced technologies and appellations solutions.

Jun 2000 - April 2005

Egypt, Middle East & Far East

Solutions Development Manager, Enterprise Systems, NIIT

Solutions Architect and Programmer/Analyst Engineer

- During this period, I've been working with several local and regional organizations in short term assignments, project-based jobs or as consultant. Many of those organizations are partners to global vendors like Microsoft, Oracle, IBM, Sun, MindLeaders, WebSense, ViriSign...etc. Main companies were Infinit Consulting, Gulf Net Solutions and NIIT (CMM-Level 5) offshore dev. services; where I undertook business development and capacity building assignments as well.
- Working in assignments for many enterprise customers, I've implemented business solutions and managed projects in multiple areas and industries using diversity of technologies:
 - Enterprise Projects Management (EPM) and Microsoft Project Server solutions including portfolio analysis and integration with back-end systems.
 - Mobility solutions and embedded systems for interfacing with industrial machinery.
 - E-Government solutions, E-Learning solutions, portals, web applications development and content management.
 - Workflow automation and business process management solutions including CRM and ERP integration with Oracle E-Business Suite and Oracle technologies.
 - Microsoft server technologies solutions including SQL Server, BizTalk, SharePoint and Exchange servers utilizing Microsoft.NET development technologies.
 - Information security and network infrastructure management solutions.
- As programmer/analyst, I have conducted business and system analysis for software and web applications mainly in the industrial manufacturing, supply chain and logistics areas. Microsoft development technologies and Oracle database was mostly used in the implementation.
- Part of my assignments was to deliver advanced hands-on training workshops and official

courses to different audiences including managerial level, business users and technical consultants. I've also presented demonstrated in regional ICT events and exhibitions.

Mar 1997 - May 2000 The Cabinet Information and Decision Support (IDSC) Egypt

IT Specialist / Software Engineer

- IDSC has played leading role in developing the ITC industry in Egypt and was behind many national & regional initiatives & projects. I had been working as IT specialist including network and system administration. Then I moved to software engineering and applications development using database, programming and web applications technologies.
- Contributed in many national wide projects and solutions and got the chance to use the most recent technologies. For example: archive rooms automation system, E-Commerce development initiative, Egypt governorates integration intranet, industrial regulatory reporting system, Industry Harmonized System adaption initiative, fleet management system, citizens complain tracking system.
- As IT Specialist was responsible to administrate Windows/Novell Netware governorate network.
- Delivering sessions and syllabus in Software Engineering in the Information Technology Institute (ITI) including supervising and supporting students' graduation projects.

Jun 1991 - Feb 1997 Damietta Power Generation Station & Other Sites Egypt

Trainee Engineer / Industrial Systems Engineer

- Industrial Systems Engineer worked in several projects types including plastic machinery design & production, plastic production, advanced power generation plant, textile & yarn manufacturing, hydro-pneumatics & control systems.
- Shoman Plastics Machinery & Production Factory: the design & manufacturing cycle of plastic machinery – film / injection / large rolls / recycling production line operations.
- Damietta Marine Port: replenishment of the main waste burning plant and its control system
- Damietta Nile Gate: replacement of the old hydraulic control system with new one based on PLCs and high durability hydraulic components.
- The Egyptian Agriculture Company: replacement of the dairy stations control and activation system where the old mechanical control was continuously failing.
- Damietta Combined-Cycle Power Generation Station: DCS plant control system – gas cycle and turbines – steam cycle and turbines – waste chemical treatment unit – plant water intake cycle – predictive maintenance system – plant simulator system.
- Trainee engineer along 8 months in Alexandria Refractory Materials production plant: this where I've completed my graduation project on fluid power hydraulic & control system for the pressing and forming line.
- Trainee engineer along 4 months in Damietta Yarn and Textile Factory: textile machines control & CAD system - factory overall air conditions system
- I've excellent skills, talent and knowledge in engineering willing to work in areas that combine engineering and software practices. Continuously reviewing developments in industrial process control and engineering software like SCADA solutions, Microcontrollers, Siemens, Honeywell, Emerson Process Management PlantWeb, NI LabView, AutoCAD...etc

Professional Certifications, Recognitions & Memberships

- Professional Scrum Master (PSM) III / Lean KANBAN KPM – in progress
- Certified Advanced Analytics Specialist for Data Scientists
- Advanced Methods in Data Science and Big Data Analytics Dell EMC Proven Professional
- Team Kanban Practitioner (TKP) by Lean KANBAN
- Professional Scrum Master (PSM) I Certified by Scrum.org
- Professional Member of the Association of Computer Machinery (ACM)
- Proven Professional Cloud Services and Infrastructure (EMCCIS)
- Excellence @ EMC Silver Level Award (Cloud, Big Data Analytics and Hadoop)
- Proven Professional in Data Science and Big Data Analytics (EMCDSA)
- Platinum Member of The Open Group – working now on TOGAF / OCA Certifications
- Oracle EMEA Master Principle (IC5) in Solutions Architecture
- Chartered Management Institute (CMI) Level 5 Award in Management & Leadership
- Member of Chartered Management Institute (MCI)
- OGC Information Technology Infrastructure Library (ITIL) v3 Foundation
- Oracle Certified Instructor (OCI) – Oracle MEA Assessor of Certified Instructors
- Analyzing Requirements and Defining Microsoft .NET Solution Architecture
- Microsoft Certified System Engineer (MCSE)
- Microsoft Windows 2000 Server Technology Early Achiever
- Microsoft Certified Database Administrator (MCDBA)
- Microsoft Certified Solution Developer (MCSO)
- Oracle Certified Professional (OCP) – SQL & PL/SQL
- Oracle Certified Master (OCM) Developer
- Microsoft Certified Trainer (MCT) – Several Accreditations
- Microsoft Certified Professional (MCP) – Web Applications Development
- Egyptian Engineers Syndicate Member – Mechanical Engineer

Education & Studies

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| 2016–... | Nile University | Cairo, Egypt |
| | <ul style="list-style-type: none">• Master of Science in Informatics, Real-time Analytical & Massive Streams Processing – in progress• Research thesis planned in Logistics and Supply Chain operational optimization using Deep Learning, Computer Vision, Graph Models, Distributed Analytics on Big Data technologies. | |
| 1998–1999 | Information Technology Institute (ITI) | Cairo, Egypt |
| | <ul style="list-style-type: none">• Software Engineering and Development Post-Graduate Program.• Graduation Project: developing distributed business intelligence and reporting solution for Egyptian main national industrial regulatory organizations. | |
| 1996–1997 | Alexandria University, Faculty of Engineering | Alexandria, Egypt |
| | <ul style="list-style-type: none">• Pre-master in Computational Fluid Dynamics, Numerical Methods and Finite Element Analysis. | |

1991–1996 **Alexandria University, Faculty of Engineering** **Alexandria, Egypt**

- Bachelor’s Degree B.Sc. in Mechanical Engineering.
- Graduation Project: designing fluid power control system for refractory production plants.

1988 – 1990 **High School Education - Math Division** **Damietta, Egypt**

Professional Training

- Supply Chain Management Micro Master, MIT, Edex MITx, 2016 – in progress
- Internet of Things (IoT) Digital Solutions Enablement Workshop (5 days), Dell EMC, 2017
- Kanban Management Professional (KMP) Foundation I, LeanKANBAN University, Cairo, 2017
- Native Hybrid Cloud and Cloud Native Implementation Workshop, Online, Dell EMC, 2016
- Researcher Connect Workshop (4 days), British Council, Giza, Egypt, 2015
- EMEA Project Management Conference and Workshops (3 days), EMC Czech, 2015
- Coaching and Leadership Skills for Managers (2 days), IIL Inc., USA 2015
- Researcher Connect Innovation Skills Workshop (3 days), British Council, Cairo, 2015
- Cloudera Hadoop Administration Workshop (2 days), ROI Training Inc., USA, 2013
- Advanced Visualization & Presentation Techniques Workshop (3 days), Rotz, Germany, 2013
- Distributed Architecture Applications using Hadoop Workshop (2 days), EMC Hopkinton, USA, 2012
- Advanced Data Sciences and Big Data Analytics Bootcamp (3 weeks), EMC Franklin, USA, 2012
- Data Sciences and Big Data Analytics Workshop (5 days), EMC Singapore, UK, 2012
- Data Sciences and Big Data Analytics (5 days), EMC Brentford, UK, 2012
- Advanced VMWare Virtualizations Workshop (5 days), EMC Bracknell, UK, 2012
- Information Storage and Management, EMC, Cairo, Egypt, 2012
- VMware vSphere Virtualization Architecture and Implementation Workshop (5 Days), Cairo, 2011
- Greenplum DCA Data Warehousing / Analytics Workshop (8 Days), EMC Franklin, USA, 2011
- Oracle ExaData and ExaLogic Elastic Grid Workshop (3 Days), Oracle EMEA, Egypt, 2010
- Oracle Fusion Applications Readiness Bootcamp (1 Month), Oracle Development, India, 2010
- Value Selling Practitioner Workshop (2 Days), Oracle EMEA, Egypt, 2010
- Management Foundation - Leadership & Influence Program (4 Days), DDA Consulting, UK, 2010
- EMEA ISA/ATA Solution Architecture Workshop (5 Days), Oracle EMEA, Switzerland, 2009
- Advanced SOA and BPEL Architecture Workshop (4 Days), Oracle EMEA, Egypt, 2009
- Oracle Enterprise Performance Management (EPM) Solutions (2 Days), Oracle, KSA, 2008
- Oracle Governance, Risk and Compliance (GRC) Workshop (2 Days), Oracle, Jordon, 2008
- Oracle BI Applications Implementation Workshop (5 Days), Oracle Consulting, Austria, 2008
- Hyperion EPM Applications Workshop (4 Days), Oracle, Egypt, 2008

- Global Applications Technology and Architecture Workshop (6 Days), Oracle HQ, USA, 2008
- Siebel CRM Applications and Solutions Workshop (4 Days), Oracle, Egypt, 2008
- Oracle Architecture and Blueprint Methodology Workshop (3 Days), Oracle, Egypt, 2008
- Enterprise Architecture and Applications Integration (3 Days), Oracle, Romania, 2007
- Oracle Data Integrator Implementation Workshop (3 Days), Oracle, UK, 2007
- Oracle Database 10g: Data Guard Administration (3 Days), Oracle, UK, 2007
- Oracle Database 10g: Real Application Clustering (5 Days), Oracle, Switzerland, 2006
- Install, Patch and Maintain Oracle E-Business Suite Applications (5 Days), Oracle, Malaysia, 2006
- EMEA Sales Readiness Training for Oracle University (2 Days), Oracle, Egypt, 2006
- EMEA Enterprise Projects Management (EPM) Specialist (5 Days), Microsoft, Turkey, 2004
- EMEA Operations for Oracle University Partners (1 Day), Oracle, Dubai, 2004
- Microsoft Business Intelligence Solutions Workshop (6 Days), Microsoft, Egypt, 2003
- Programming on TI Microprocessors Workshop (2 Days), Origin Scientific, Singapore, 2003
- Microsoft Enterprise Projects Management (EPM) Workshop (5 Days), Microsoft, Turkey, 2002
- Java Enterprise Applications and Web Development (3 Weeks), Oracle, Egypt, 2001
- E-Business Solutions Using IBM WebSphere workshop (5 Days), IBM, Egypt, 2001
- Microsoft Windows System Engineers Program (over 6 Months), Microsoft, Egypt, 2001
- Oracle Applications Development Program (over 6 Months), ICL, Egypt, 2000
- Capability Maturity Model (CMM) Workshop (3 Days), Motorola/SEI, Egypt, 1999
- Object Oriented Design Patterns and Methodologies (over 3 Weeks), ITI, IDSC, Egypt, 1998
- Instructors Preparation Program (2 Months), ITI, IDSC, Egypt, 1997
- ISO 9000 Quality Assurance Workshop (2 Days), SGS, Engineering Syndicate, Egypt 1996
- Contentiously attending E-Learning, Web Casts and eSeminars on engineering, technology, applications, consulting, industry strategies, business skills...etc started 2002 till the moment.

Summary of Main Competencies, Expertise & Backgrounds

- End-to-end full stack enterprise solutions architect and consultant.
- Third Platform technologies and applications, IoT, Open Source Technologies, Data Sciences & Big Data Analytics, Data Mining and Machine Learning, Microservices, and Continuous Delivery.
- Lean Agile Transformation, DevOps, SCRUM, CI/CD, LeSS, LeanKANBAN, Nexus.
- Distributed computing development models and technologies including Blockchains, DLT, IoT, M2M and Parallel Processing Systems.
- Cloud Computing using Cloud Native, Cloud
- Software engineering, management and analysis & design using several programming models and languages.
- Internet of Things (IoT), mobility solutions and embedded systems development and implementation for control systems.
- Oracle Unified Method (OUM), Applications Implementation Method (AIM), OGC ITIL, Agile Scrum, Lean KANBAN, Zachman Framework, MSF/MOF and TOGAF.
- Oracle applications management – ERP / CRM / EPM / BI / SOA / technology.

Foundry, AWS, VMWare, OVS, OpenStack, Native Hybrid Cloud, VxRACK, Docker.

- Mentoring, Team / Personal Development Planning, TOI and community development.
- Instructor, lecturer and public speaker – design, development, authoring and delivery of training syllabus & content – Instructional Design.
- Quality management standards ISO 9000, Lean Six Sigma and CMM.
- Oracle Fusion Applications, E-Business Suite, Siebel CRM, Hyperion EPM & BI Analytics applications technology architecture.
- Engineering and industrial experience including manufacturing, power stations and electromechanical control systems.
- Project management using PMBOK and software including MS EPM Project Server, Primavera and Oracle Projects solutions.
- Leadership, innovation and operational change management.
- Business process modeling, analysis, re-engineering and ROI Analysis.
- Cross vendor development, tools and enterprise server technologies for Oracle, Microsoft, Dell, EMC among others.
- Infrastructure and hardware platforms planning and selection for applications Sun, IBM, HP...etc
- Information security, identity and access management solutions.

Personal Information

- Born on 4th of November 1973.
- Married & have three kids.
- Egyptian nationality.
- Native Arabic - Fluent in English.