Resumes

Shah Ahmed

Summary of Qualification

Shah Ahmed has nearly thirty years of in-depth experience in the areas of IT consulting, management, training, business development, process engineering and execution. He has been instrumental in providing strategic business vision to solve tangible problems in system engineering, software specification and development in various lines of business domains.

* Shah’s experience encompasses significant technical program management on medium to large scale projects and programs. The execution of these tasks was accomplished through the adoption of industry standards and methodologies with identified resources, deliverables and milestones. Shah has developed and managed high-performance teams with shared vision and excellence in execution.
* Shah’s expertise includes Enterprise System Integration, Enterprise Architecture, Decision Support and Warehousing, System Engineering, Solution Architecture, Cybersecurity and Business Continuity and Disaster Recovery, Mission Critical and Safety Critical Application Systems.

Education

* Bachelor, Computer Science and Chemistry, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, 1983

Certifications and Training

* Unified Modeling Language (UML), Rational Software Architect (RSA), Rational Rose, Rational Unified Process (RUP), Service Oriented Modeling and Architecture (SOMA)
* Design Patterns
* Configuration Management, Change Management, Rational ClearCase, Rational ClearQuest
* Quality Control, Principle of Testing, Advanced Performance Testing
* Enterprise Architecture, Zachman Framework, Gap Analysis
* Project Management Principles
* JAVA and Enterprise JAVA
* CORBA, XML
* E-Commerce Components and Architecture
* Object Oriented Analysis and Design

Relevant Experience

**Technuf, LLC,** **Mar 2013 - Present**

***MD, Principal Engineer/Project Manager***

As the Principal Engineer, Shah provides the overall IT vision to the company. He also provides consulting services to the commercial and government customers on cyber security, software development, SDLC and tool automation initiatives.

**TISTA Science and Technology, MD, May 2007 - Mar 2013**

***Principal Engineer***

**Internal Revenue Service, Cyber Security, MD Dec 2009 – Present**

***Project Manager, Architect: Cyber Security, Secured Registration Based e-Mail, Deep Packet Capture, Data Leakage and Loss Prevention***

Management

As the Principal Engineer of this fast-growing company, Shah provided the technical vision for supporting the overall mission of the organization. In addition to his corporate responsibilities, he also provided Subject Matter Expertise to numerous federal government clients in the area of SDLC, tool automation, cybersecurity and business process optimization.

Technical

* Supports the IRS PM with architectural support for the design, development and deployment of a Data Leakage Prevention (DLP) solution to protect the employees and the citizens of the United States from accidental and malicious leakage of sensitive information.
* Assisted the IRS PMO with architectural support for deploying enterprise level secured communication (SRBE) containing Personally Identifiable Information (PII) and Sensitive but Unclassified information (SBU) to potentially tens of millions of tax-payers and other agency and business partners. Supported the analysis, design and deployment of PCAP solutions to include all the ELC/SDLC deliverables.
* Assisted the IRS with the requirements identification and elicitation, design alternatives analysis and solution evaluation for the enterprise deployment of Secure Registration Based Email (SRBE)
* Assisted the IRS with the performance evaluation of the SRBE solution in the DITE lab
* Supported the IRS with the deliverables of both ELC and non ELC based documentations to include white paper, market survey, technical risks and mitigation approaches.

**Internal Revenue Service** **May 2009- Dec 2009**

***Cyber Security, MD,***

***Requirements Analyst: Cyber Security, Identity Access Management***

Assisted IRS with requirements elicitation, capture and analysis for managing enterprise level identity access, role based access and automated provisioning for approximately 140 thousand employees, contractors and other agency partners.

**United States Patent and Trademark Office, VA,**  **May 2007- Dec 2010**

***Team Lead: Process Guidance, Tool Automation, Rational Integrated Development Environment***

* Advised USPTO management on best practices for software development including Requirements Management, Configuration Management, Analysis, Design and Construction and Quality Management
* Managed Rational Integrated Development Environment consisting of all of the Rational product members
* Supported enterprise deployment of the development environment
* Assisted in the development of an Enterprise Business Continuity Disaster Recovery (BCDR) plan that encompassed all development assets to have background replication of data stores in a DR site using ClearCase Multi-Site
* Managed the operational team for maintaining the Enterprise Integrated Development Environment.

**IBM Software Group, VA,**  **Mar 2006- Apr 2007**

***Technical Program Manager, World Wide TechWorks***

* Manage the creation of reusable technical assets for the field enablement and customer driven proof and evaluation of technology. The development of these IP typically requires cross collaboration of multiple brands and varied skill sets.
* Coordinate early enablement beta programs with Beta customers.
* Enable field with key programs such as Service Oriented Architecture (SOA), Geographically Distributed Development (GDD), Governance and Compliance (G&C), Automated Software Quality Solutions (ASQ) and DoD Architectural Framework (DoDAF).

**IBM Software Group, Rational Software, VA Sep 1997- Mar 2006**

***Certified IT Specialist/Technical Engagement Manager/Technical Account Manager***

* Met and exceeded the team’s commitment to IBM for products and service revenue goals while ensuring customer success and satisfaction.
* Managed multiple engagements with primarily US Federal Government Civilian Agencies (Dept. of Labor, Dept. of States, Dept. of Agriculture, Dept. of Commerce, Health and Human Services, NASA, Dept. of Treasury and Dept. of Education) and various banks (FDIC, World Bank, IFC, IMF, Export Import).
* Architected development infrastructure to support large scale analysis, development and validation team distributed across multiple sites in the USA.
* Consulted executives (CIOs and CTOs) on the execution of their visions.
* Educated agency management teams with best practices in software development
* Managed internal and external resources for the execution of complex implementation and project plans.
* Created market awareness to emerging and established accounts with new products and direction through presentations and seminars.
* Created and managed contracts, pricing, labor estimates for many concurrent projects
* Created and presented Quarterly Business Review to IBM senior management
* Recognized and managed crisis, customer satisfaction and technology shortcoming issues
* Aligned with various acts of Congress for IT efficiency, disabilities acts and optimization.
* Developed standards and process integration for agency wide adoption
* Developed “dashboard” type metrics for determining ROI
* Developed policies for productivity enhancements (MDA, MDD, CMM, etc.)
* Top performer recognition (2005 IBM Rational Tech Rep of the Year for the Americas, 100% Club)
* Member of the IT Certification Board

**NORTEL Technologies (Bell Northern Research),**  **Feb 1995- Sep 1997**

**Ottawa, ON, Canada**

***ISDN, OAM&P, Switching Division, Team Lead***

* Assisted in planning and tracking the project deliverables and managed development milestones for myself and my team. The team was responsible for providing Operations, Administration, Management and Provisioning support (OAM&P) for the ETSI variant of ISDN PRI product slated for delivery to Germany, China, Japan and Columbia.
* Analyzed the customer requirements for ISDN layer 1 and layer 2 OMs and investigated design requirements on the PDTCs with PCM-30 carriers and CM to support surveillance and PFAs. This project attempts to integrate the multi-threaded (Legacy) DMS-100 based product with object-oriented technology. The development and release management process conforms to the ISO-9000 and Trillium standards.

Code Division Multiple Access (CDMA) Wireless, Senior Scientific Staff

* Member of the design and architecture team for the CDMA wireless group.
* Designed, implemented and tested solutions for extending MTX (Mobile switch) to support multiple BSCs (QUALCOMM Product) to give wider geographic coverage required by the large metropolitan centers. The scope of the project encompasses a system view with impacts in CM, CAUs, and BSCs. The functional areas impacted are call processing, table control and static data, OM’s and Logs, IS-41, SMS and NOIS messaging, maintenance and software upgrades.
* Designed and implemented appropriate data model via table control and static data to support call processing, OAM&P and software upgrade via ONP in the multi-BSC environment. The architecture has a goal of providing transparency to the service layer, scalability and alignment with A interface current being proposed as the industry standard. The development environment is HP/UNIX running Protel, PLS and HPSOS.

**Canadian Marconi Company, Ottawa, Ontario, Canada Nov 1993 - Feb 1995**

***Royal Navy Merlin Color Display Graphics (CDG), Senior Software Engineer***

* Designed, coded, tested and integrated the display function for maintaining tactical symbols on the Color Display Graphics in the EH-101 aircraft procured for the British Royal Navy. The CDG is a specialized graphics driver connected to a serial data bus in the aircraft allowing the operator to control up to six separate display units showing a combination of radar, sonar and tactical information on real time basis. The hardware is based on the Intel 486 main processor and the TMS 34020 graphics processor. The software design is object based and expressed in Buhr’s notation using the Teamwork case tool. The software was produced in Ada, C, 486 and TMS 34020 graphics processor assembly languages.
* The development environment was a network of HP Mentor/UNIX with Teamwork and Interleaf, PC/DOS with Alsys Ada Environment and VAX/VMS with CMS configuration management system. The software was developed to the US DoD-2167A software development standard and conformed to the DoD-2168 and AQAP-13 Quality Standards.

Canadian Forces Utility Transport and Tactical Helicopter Avionics Integration, Requirements Manager

* Produced the Software Requirements Specification and Software Design document for this project. The CF-UTTH is a full scale avionics integration project involving distributed hardware and software architecture with various avionics, tactical, navigational and flight control components (approximately 40) connected to a militarized serial data bus (MIL-STD-1553B). The analysis was performed using DeMarco’s and Ward-Mellor’s data flow modeling technique and was captured using a Teamwork Analysis model.
* Designed the system using Buhr’s Ada Structured Graph notations. Both the analysis and design documents were produced on the HP platform running Mentor AEGIS/UNIX with Teamwork and Interleaf. The analysis and design models were developed in accordance to the RTCA/DO-178A, Software Considerations in Airborne Systems and Equipment Certification Standard and the DoD-2167A, Software Development Standard. The project conformed to the DoD-2168 and AQAP-13 Quality Standards.

Skills

* Software Language
  + Rational Rose/Rose RT/XDE/RSA UML, ObjecTime Developer ROOM
  + JAVA, C, C++, Protel, COBOL, FORTRAN, Ada, HTML, XML, Perl, UNIX, Windows NT,
  + Assemblers, Ultra 16, CMS-2, Zilog Z80, DSP TMS-3020
* Software Life Cycle
  + Enterprise Application Integration, Business Process Reengineering/Information Strategic Planning
  + Business Area Analysis & Business Systems Design
  + Technical Design
* Formal Techniques
  + Object-Oriented Methods, Rational Unified Process (Iterative Development), SDLC Best Practices, Agile, Information Engineering, Client-Server Model, Data & Process Modeling, PERT/CPM, Cost Benefit Analysis, Function Points, DoDAF
* Application Domain Skills
  + Cybersecurity; Command, Control and Communication System; Transportation, Air Traffic Management and Logistics System; Telecommunication; HR Management System; Nuclear Reactor Safety Shutdown System