

NICK WESEMAN

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Houston, TX

(256) 226 – 0198

TECHNICAL SKILLS

Languages: Java, C# .NET, ASP.NET, Oracle ADF 10g/11g, C, C++, Visual Basic (6/.NET), Objective-C, UML, HTML, XML, XHTML, XSLT, JSON, JavaScript, AJAX, CSS, PHP, SQL, Delphi, PL/pgSQL, MySQL, Python, Perl, Ruby on Rails, Haskell, LISP, VHDL, PathMATE
Operating Systems: Windows, Mac, Linux/Unix, Solaris, DOS
Software: Eclipse, Visual Studio, Rational Software Modeler & Architect, JDeveloper, ClearCase, SQL Server, Agitator, Clover, DOORS, Solipsys TDF/MSCT, Klocwork, EMMA, WCF, WPF, Apache, ClearQuest, Lucy, LuciadMap, Quick Test Professional, Visio, Dev-C++, Borland Together Architect, Oracle, 3D Studio Max, SVN, CVS, SOAP UI, Siebel Tools, Ant
Certifications: Department of Defense SECRET Security Clearance

EDUCATION

University of Alabama in Huntsville, Huntsville, AL. 2008
M.S. in Computer Science; GPA: 4.0 / 4.0

University of Texas at Austin, Austin, TX. 2006
B.S. in Computer Science; GPA: 3.90 / 4.0

PROFESSIONAL EXPERIENCE

Two Sigma Investments, Houston, TX

Software Engineer

2012 - Present

Two Sigma is a technology company that applies rigorous scientific based big data approaches to investment management (think Google meets Hedge Fund)

- Serve as team lead for the Accounting & Treasury team dedicated to supporting various back office projects such as Cash Management and Fund Performance Reporting.
- Develop an automatic data import framework using Java, SQL, & Clojure
- Improve custom margin management and portfolio rebalancing system in VBA & SQL
- Design and implement a process to automatically generate quarterly regulatory filings using Java, JAXB, and XJC (turning a manual process requiring 2 people for 1 week into seconds)

Intergraph, Huntsville, AL

Senior Web Application Software Consultant – E-Support & E-License

2011 - 2012

E-Support is an Oracle Fusion ADF web application which serves as a customer and employee portal for thousands of users worldwide.

- Served as Oracle ADF / Java EE subject matter expert and led all development activities.
- Developed web front-end in JSF, AJAX, and ADF Faces.
- Developed Java EE back-end in ADF BC, SOAP Web Services, and SQL Server DB.
- Implemented Oracle SOA between Oracle Application Server and Siebel Enterprise.
- Improved the existing manual build/deploy process that ran in hours to an entirely automated continuous integration process using Ant, JUnit, Cruise Control, & OJDeploy to run in minutes.
- Improved proprietary search algorithm to increase search results performance by 75%.

E-License is an ASP.NET MVC 3 web application which allows order and license administration.

- Developed ASP.NET MVC 3 web application using C#, VB, Razor, and JavaScript (jQuery) in an Agile environment using Scrum processes.
- Used Test-driven development & MS Test to develop custom key-cutter to automatically generate license keys from order information in Dynamics GP (Great Plains) via BizTalk.

Raytheon, Huntsville, AL

Senior Software Engineer – PMET

2010 - 2011

Patriot Multi-Echelon Trainer (PMET) is a simulation training program which incorporates 3D virtualization (video game) technology to teach soldiers how to use and maintain Patriot systems.

- Developed 3D virtualization environment utilizing the XNA game engine and C#.NET.
- Produced mobile iPhone & iPad iOS 3D virtual application using Unity 3D, and developed web server back-end in Ruby on Rails which provided soldiers with training assistance and situational awareness.
- Worked directly with Army customers at Ft Sill, OK and Boston, MA to gather requirements and evaluate future customer needs.

- Worked with studio design team in San Francisco, CA to translate high-resolution photographs into a 3D-model using 3D Studio Max and a custom content pipeline.

Senior Software Engineer – ACCS Data, Paris, France

Apr 2011 – Aug 2011

- Filled a critical Java EE need by accepting a 6-month assignment in Paris, France.
- Performed back-end Java development and wrote server side business logic atop a proprietary object-relational mapping / container-managed persistence framework deployed on a Weblogic application server.
- Worked alongside French and American software engineers to develop an n-tier Client/Server Java EE application utilizing EJB and XML run on a Solaris server.

Senior Software Engineer – ePOMT

2010 – 2011

Electronic Patriot Organizational Maintenance Trainer (ePOMT) is a simulation training program for the Japanese Air Force to teach soldiers how to use and maintain Patriot systems.

- Led ePOMT software team of seven engineers, as well as oversaw all design, integration, testing, and successful delivery to customer in Hamamatsu, Japan.
- Developed training simulation application in VB.NET to run on an RT3 Windows 7 machine.
- Wrote data access layer to connect VB.NET to a Microsoft Access database using ODBC.
- Administered ClearCase source control database, executed merges, and ran nightly team builds.

Software Engineer – ACCS GIS

2008 – 2010

Air Command & Control System – Geographic Info System (ACCS GIS) is a NATO command and control application for viewing of non real-time and real-time objects on a situational display.

- Developed Java code products for the GIS by utilizing Luciad Map framework using MVC architecture to develop specialized map functions, custom controllers, and layer management.
- Executed unit test, software and system integration in Huntsville, AL, and Los Angeles, CA.
- Developed unified configuration and testing plan for the software team to encompass the build process, unit testing, and static code analysis using Klocwork and EMMA.

Software Engineer – SRP MWC

2006 – 2008

Surveillance Radar Program – Missile Warning Center (SRP MWC) is a command and control application for the Taiwan Air Force for early warning of ballistic missile attacks.

- Developed Java components for all Battle Planner related modules using OOA/D principles.
- Implemented drawing of objects on a real-time map via a Solipsys Tactical Display Framework.
- Utilized Model Driven Architecture (MDA) by writing platform independent PathMATE action language and creating UML models for use in automatic Java code generation.
- Designed data model, produced data services utilizing JDBC, and provided administration for a Relational PostgreSQL Database run on a Linux server.
- Unit and integration tested software using an automated test generation application (Agitator) and an automated GUI testing tool (Quick Test Professional).
- Traced requirements to software and vice versa in a requirements management tool (DOORS).
- Conducted tactical demonstrations of MWC software for air force generals in Taipei, Taiwan.

Overwatch Textron Systems, Austin, TX

Software Engineer

2005 – 2006

- Developed RESTful web services that processed retrieve and response requests for a data distribution system to synchronize real-time mission data across a distributed network for mission planning and battle management using Java, XML & JSON.
- Designed, developed, and maintained a company website using JavaScript, AJAX, CSS, XHTML, PHP, and MySQL.
- Installed, configured, and administered a Linux web server running Apache, PHP, and MySQL.
- Extended a tactical GIS application in C/C++ and C# .NET used for mission planning.

Aspvir, Austin, TX

Systems Engineer

2005

- Created and ran test suites using a proprietary testing framework for “Stubbs the Zombie” (credited), a game for Windows, Mac, and X-Box written in C/C++ utilizing the Halo game engine. Won the “Best Bug” award for the game.
- Implement bug fixes in C++ to enhance on-demand caching and collision detection
- Created and ported various Windows applications to the Mac using Objective-C and Cocoa.