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## Summary:

Architect and developer of high performance, internationalized J2EE front-end web applications. Primary focus on User Interface software architecture, network performance, information security and browser compatibility. Have served as Lead Software Engineer/Developer and architect of several product development teams to support application life-cycle management. Extensive professional experience in the military, marketing and financial sectors in independent, small teams and large corporate environments.

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## Specialties:

### Technologies:

|                   |                        |                                 |
|-------------------|------------------------|---------------------------------|
| Java/J2EE         | JavaScript             | JSP (JavaServer Pages)          |
| CSS 2/3           | JUnit / JSUnit         | JSTL (JSP Standard Tag Library) |
| Git/Bitbucket     | XHTML/HTML5            | AJAX/JSON/XML                   |
| PHP/Perl          | Agile                  | SQL                             |
| usability         | accessibility          | (I18N) Internationalization     |
| web standards     | Servlets / Portlets    | browser compatibility           |
| responsive design | Continuous Integration | server administration           |

**Build, Test & Monitoring Tools:** Ant, Maven, Jenkins, Sonar, Splunk, Nexus and WebPageTest.

**Familiarity with Systems:** Solaris/UNIX/Linux, IBM WebSphere, ATG, Jboss, DB2, Oracle and Sybase.

**IDE familiarity:** Eclipse, IntelliJ, NetBeans, and IBM WSAD/RAD 5-8

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## Experience:

### **VP/Lead Software Engineer – MUFG Union Bank**

*October 2013 – Present*

*San Diego, CA (Remote Worker)*

Work in an mixed agile and traditional waterfall development environment to provide enhancements, maintenance and support User Interfaces of banking website security applications. Contribute enhancements to CA Identity Suite of products, predominantly SiteMinder. Current work migrating to PingFederate.

- Updated Self Service (Forgot UserId or Password) functionality to use responsive design capabilities of BootstrapJS. Enabled use of hybrid native-application on Android and IOS to make use of the newly designed web application functionality.

- Worked to improve security and network performance by updating the presentation tier assets of several core banking applications. Used various tools to identify and measure performance bottlenecks and improvements made during the project.

- Conducted network testing and performance improvements to the Login subsystems.

- Participant in the annual Disaster Recovery exercises.

## **Lead Software Engineer – OfficeMax**

*January 2012 – October 2013      Naperville, IL*

Worked in an Agile development environment to provide enhancements, maintenance and support to B2C and B2B E-commerce websites.

### **Major Project work:**

- Enabled “Buy Online, Pick up in Store” and Digital Download Software capabilities.
  - Cardinal Commerce -solution to provide Verified By Visa and Mastercard SecureCode.
  - RichRelevance – dynamic product recommendations based upon user history.
  - Cybersource Device Fingerprinting – fraud detection and prevention
- Use Eclipse, J2EE, ATG 9, JBoss, Oracle, Tibco, CVS, Jenkins, Sonar, PrototypeJS and JQuery

## **Senior Java Programmer – Edline (acquired by Blackboard Engage)**

*September 2011 – December 2011      Chicago, IL*

Enhancements and maintenance of a widely used educational web application. Primarily focused on web-tier enhancements of JSTL tags, HTML, CSS and JavaScript within JSP Servlet application to facilitate performance, SEO, browser compatibility specifically for iPad, validation and accessibility (WCAG) for users with disabilities,

- Use Ubuntu Linux, Eclipse, J2EE, Tomcat, SQL Server, RabbitMQ, Perforce, Jira, PrototypeJS and JQuery.

## **Senior Application Architect – HSBC**

*2003 – August 2011      Chicago/Mettawa, IL (Remote worker)*

Designed and implemented internationalized J2EE web applications for a major financial company using Java application development frameworks running on IBM WebSphere Portal. Lead a team of both local and offshore developers spread over a large geographic area.

### **OneHSBC User Interface Construction Standards**

Worked on a small core team within the corporation to build a common foundation for all staff and customer browser based application UI development for the OneHSBC project. The foundation code was based on PrototypeJS with Scriptaculous; though I gained familiarity with other frameworks such as JQuery and Dojo as they were often included by some applications and third-party components.

- Designed, reviewed, quality tested and performance optimized all JavaScript for inclusion in code releases.
- Created a robust framework to support internationalization and localization of content and form validation within the browser on the client tier.
- Optimized code (HTML, JavaScript and CSS) and network performance.
- Introduced the use of JSLint, JSMIn and JSUnit into the front-end application development process.
- Responsible for leading, training, delegating and transitioning work to offshore resources.
- Produced project status reports to management and business representatives.

## ***Staff-Facing Front End Systems - Global Architecture***

Worked on centralized team to build and maintain Servlet and Portlet based applications used within call centers and branch offices. Made use of IBM MQSeries, DB2, Oracle, Sybase and JBoss Rules.

- Familiar with IBM Portal Server, current work includes migration of existing applications from Java Servlet architecture to Jetspeed and JSR-168/286 portlets.
- Co-authored a customized Authorization Entitlements solution to manage information security for individuals based on their role and group.
- Created and maintained a custom JSTL and JSF tag libraries to simplify developer effort by allowing for use of common components without need for them to craft their own mark-up, CSS and JavaScript for each instance.
- Use Rational Unified Process (RUP) development process, documented system using Rational Rose to create UML model and diagrams prior to development.
- Performed skills assessments and conducted training for former VisualBASIC developers to transition them and their knowledge and allowed for migration of a legacy staff-facing desktop application to a browser based solution
- Developed a software "Bridge" enabling the client web browser to initialize service calls, executing functions in legacy VisualBASIC application on the desktop, and allowing the web application to process the response.
- Role included frequent overseas travel and meetings with business representatives to collect requirements and assist in testing and software launch to production environments.
- Built and maintained a server to support internal team testing and communications. Familiarity with installation and administration of Apache HTTPD, Apache Tomcat, MySQL, PHP, FTP, Email, and Wiki software.
- Authored JUnit tests and conducted code reviews with the use of Eclemma, FindBugs, PMD and CheckStyle.
- Version control with use of Serena Changeman DS, as well as MKS. Build process relied upon Ant and Maven scripts.
- Performed extensive load testing of the application using LoadRunner and various other tools to isolate memory and performance issues to approach near sub-second response times while under heavy loads.
- Performed network testing and analysis to improve system performance in call-centers and branches, particularly for those with limited bandwidth.

## **Principal – Giant Geek Communications**

*1995 – Present*

*Plainfield, IL*

Provide independent consulting to a variety of clients with projects including application and website development, HTML5 and mobile enhancement, SEO, search engine submission, website hosting, and computer maintenance.

Ongoing administration, support, and upgrades of various services including SSH, Apache HTTPd, SVN, Sonar, Jenkins, Nexus, Ant/Maven, Apache Tomcat, MySQL Server and a mix of J2EE and PHP applications.

### **Tour-Bot (2010)**

Worked with the client to develop a PHP based website in support of a golf scoring application for the iPhone and iPad. Conducted SEO and initial search engine submissions. Aided in user testing, design and usability of the IOS application.

### **Senior Business Systems Analyst - Household International**

1999 – 2003 (Acquired by HSBC)

Wood Dale/Chicago, IL

#### **Online Customer Care**

Initially created a CGI (Perl and C-based) application to allow customers to maintain their accounts online. Later transitioned the legacy CGI application to a Struts-like (Java Servlet and JSP based) architecture running on IBM Websphere Application Server. Used IBM DB2 and MQSeries to interact with a COBOL/CICS host.

- Co-designed a templating framework to allow for application developers to more rapidly code web pages and HTML by abstracting many of the common validation patterns.
- Worked closely with creative agencies and internal business customers to design a framework that allows merchants to apply custom branding and text for their customer segments.
- Daily development activities performed in a Solaris/UNIX command-line environment, use of VI, FTP, and SCCS (version control).
- Developed a method to display Point-of-Sale receipt signatures on the Internet by reverse-engineering a C program only capable of printing the images into a Java service capable of transforming the vector pattern into usable images on the web in real-time.
- Lead and trained a small team of developers through a series of informational training courses on a variety of web and development topics.

### **Lead E-Commerce Application Developer - NEWMAX Marketing Agency**

1997 – 1999

Elk Grove Village, IL

Worked as architect and lead developer building customized E-commerce solutions. Worked directly with clients and sales staff to see projects through from initial vision to final release.

- Operation and maintenance of web servers (predominantly IIS 4.0) hosting HTTP/HTTPS (SSL), FTP, Proxy, and Email services for 61 client web sites, including securing web servers against frequent Denial of Service attacks.
- Conversion of proprietary database application from WS4D (Web Server 4D) solution to ASP (ActiveServer Pages) and CGI running on IIS.
- Created a customized shopping-cart solution for use by several clients. Procured and installed HTTPS/SSL server certificates on Apache HTTP and Microsoft IIS.
- Programming of web sites utilizing HTML, Perl, PHP, CGI, SQL, Visual BASIC, Access, XML, ASP, Cold Fusion, CSS and JavaScript
- Extensive telephone and on-site customer service including installation, upgrades, troubleshooting and support of network as well as all office software on Windows and Macintosh computers.

### **Radioman Second Class (Submarines) - US Navy**

1989 – 1995

Pearl Harbor, HI

(NEC 23EY - STRATEGICOM)

Held a Top-Secret security clearance with access to SCI compartmented materials, frequently covertly deployed to hostile environments for extended durations. Responsible for independent operation and maintenance of radio communications equipment. Knowledge of secure analog and digital circuits, transmitters, receivers, teletypewriters and cryptographic equipment on board a nuclear powered fast-attack submarine.

- Designed and implemented the TTY INTERFACE software program, allowing direct computer connectivity communications equipment resulting in a paperless work-flow.

## **Education:**

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### **DeVry Institute of Technology – DuPage (Addison, IL)**

#### **Bachelor of Science - Computer Information Systems**

Selected Course Work: VisualBASIC, PowerBuilder, C/C++, COBOL, CICS, DB2, UNIX, LINUX, MVS Assembler, Systems Analysis and MVS/ROSCOE.

*Activities and Societies:* Epsilon Delta Pi (Computer Sciences Honor Society)

Currently working toward AWS and CEH (Certified Ethical Hacker) certifications.