

BRAD ANDERSEN

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SUMMARY OF QUALIFICATIONS

Technology leader, engineer and architect with 25 years of professional development experience

- Leadership and development experience in organizations of all sizes – startup to Fortune 500
- MBA with a concentration in healthcare management
- Guidance and mentoring of onsite and offshore teams
- Facility developing intellectual property as the co-author of multiple United States patents
- Keen eye toward object oriented design and software reuse
- Experience with multiple software development methodologies – lean and agile to waterfall
- Flexibility and development experience with both front-end and back-end technologies

EDUCATION

- | | |
|------------------------------------|--|
| University of California, Berkeley | Masters, Information and Data Science – 2020 (anticipated) |
| Marylhurst University | MBA, Healthcare Management concentration – 2008 |
| Iowa State University | BA with Honors – 1990 |
- Who's Who Among Students in American Universities and Colleges
 - Phi Beta Kappa, Phi Kappa Phi

PROFESSIONAL EXPERIENCE

DIRECT TECHNOLOGY	January 2017 – January 2019
Application Architect	Sacramento, CA

- Lead the development of software architectures for products in the consumer energy efficiency domain.
- Lead the introduction of best practices across software product development teams, including engineering, quality assurance and project management.
- Mentored less-experienced members of development teams with the adoption of new technologies and software engineering discipline.
- Participated in product development, writing code contributing to new product functionality and the remediation of errors.
- Assisted in the preparation of responses to requests for proposals (RFPs) associated with opportunities in both private and public sectors.
- Acted as liaison between clients and product development teams; assisted with product integrations and providing a channel of communication through which clients can express needs and concerns.

Technologies employed

C#, Java, JavaScript, TypeScript, .Net Framework, J2EE, CA SiteMinder, Shibboleth, SAML, JBoss, IIS, Tomcat, SQL, SQL Server, Docker, Git, Jenkins, Maven, Nexus, Google Cloud Platform, Visual Studio, Visual Studio Code, Eclipse, Windows, Linux

OPTUM

Software Architect / Technology Lead – Consultant

October 2016 – January 2017

Minneapolis, MN

- 3-month contract.
- Realigned a prior consulting firm's attempt at delivering a custom learning management system dedicated to physical and emotional wellness.

Technologies employed

Java, J2EE, Liferay, Spring Portlet MVC, JavaScript, jQuery, Tomcat, Oracle, JSON, Git, Jenkins, Maven, Eclipse, Windows

INTUITIVE SURGICAL / TAOS MOUNTAIN

Technical Consultant

May 2016 – July 2016

Remote

- Assessed existing software development processes and provided recommendations for incorporating best practices, contributing to code integrity and communication between development and business organizations.
- Mentored less-experienced engineering resources on software development and architectural best practices.
- Developed portlets to contribute to Intuitive Surgical's customer support portal.

Technologies employed

Java, J2EE, Liferay, Spring Portlet MVC, JavaScript, jQuery, CSS, Tomcat, MySQL, JSON, Subversion, Eclipse, Windows

CISCO SYSTEMS / ZENSAR TECHNOLOGIES

Senior Software Architect – Consultant

February 2015 – March 2016

Client onsite (San Jose, CA) and remote

- 1-year contract.
- Assisted in the architecture and development of applications to integrate Jive Software and other social media technologies within Cisco's internal and external product offerings.
- Re-architected and refactored internal applications to follow recognized architectural patterns, sound development practices and consistent software engineering standards.
- Assisted organizations with the choice of technologies and processes for both new and existing software development initiatives.
- Mentored near- and offshore development resources on software development best practices, and social media and content management technologies.

Technologies employed

Java, J2EE, Spring, Spring Security, Spring Boot, JAX-RS, Jersey, REST, Jive (on-premises and cloud), Junit, JavaScript, AngularJS, Bootstrap, Node.js, jQuery, Tomcat, Oracle, SQL, JSON, XML, Maven, Ant, Git, Eclipse, IntelliJ IDEA, WebStorm, SOA, Windows, Linux

GENUITI SOFTWARE

Chief Technology Officer / Co-founder

April 2014 – October 2015

San Francisco, CA Bay Area

- Assumed lead architect and lead developer roles in the creation of a service-based revenue management software platform for early- to mid-staged corporations.
- Developed a modular, component-based server-side architecture using OSGi to accommodate rapidly changing and evolving regulations in the accounting and finance domains.
- Developed a single-page web application client to accommodate a modular server-side architecture and support the dynamic provisioning of a cafeteria-style, service-based product suite.

- Managed contractual resources contributing to Genuiti's technology platform including client- and server-side engineers and designers.

Technologies employed

Java, J2EE, OSGi, Spring, Spring Security, JPA, Hibernate, JAX-RS, Jersey, REST, Junit, JavaScript, AngularJS, Bootstrap, jQuery, Tomcat, Apache, MySQL, SQL, JSON, XML, HTML, Maven, Ant, Grunt, Gulp, Git, Eclipse, WebStorm, Visual Studio, SOA, SaaS, Windows, Linux

VIRTUSA CORPORATION

November 2013 – November 2014

Senior Software Architect – Social Architecture Head

Client onsite and remote

- Assumed lead architect and lead developer roles in engagements with Virtusa clients, creating proofs-of-concept and establishing initial development foundations prior to handing off work to offshore delivery teams.
- Developed the strategic and tactical foundations for Virtusa's enterprise social media solutions, including integration strategies among social and socially-enabled platforms.
- Performed custom client- and server-side application development for Jive 6 installations. Development included plugins, widgets, and utilities to assist with the migration of content from external systems to Jive.
- Developed proofs-of-concept with the Jive cloud Java SDK to assess strategies for migrating content from on premise Jive 6 installations to Jive's cloud infrastructure.
- Mentored offshore delivery teams on software development and architectural best practices.

Technologies employed

Java, J2EE, Spring, Spring Security, JAX-RS, Jersey, REST, JUnit, Jive 6 and 7 (on-premises and cloud), FreeMarker, C#, JavaScript, AngularJS, Bootstrap, jQuery, OSGi, WebSphere, Tomcat, Apache, PostgreSQL, SQL, JSON, XML, HTML, Maven, Ant, Git, Subversion, Eclipse, Rational Application Developer, Visual Studio, SOA, SaaS, Windows, Linux, Amazon AWS

SOCIAL EDGE CONSULTING

April 2013 – November 2013

Senior Software Engineer – Consultant

Sacramento, CA (remote)

- 6-month contract.
- Performed custom client- and server-side application development for Jive 5 and 6 installations with various Social Edge clients. Development included plugins, widgets, and utilities to complement Jive functionality.
- Established Social Edge's software development infrastructure and continuous integration processes, leveraging open source solutions including Git, Maven and Jenkins.

Technologies employed

Java, J2EE, Spring, Spring Security, JUnit, Jive 5 and 6, FreeMarker, JavaScript, jQuery, Tomcat, PostgreSQL, SQL, JSON, XML, HTML, Maven, Ant, Git, Jenkins, Eclipse, Windows, Linux, Amazon AWS

PROSCHOOLS / ONCOURSE LEARNING

December 2011 – April 2013

Senior Software Engineer – Consultant

Portland, OR and Sacramento, CA (remote)

- Extended 12-month contract.
- Re-architected ProSchools' J2EE-based learning management system (LMS), facilitating the online delivery of accreditation courseware for the insurance, real estate and mortgage lending industries.
- Maintained LMS and proprietary courseware development tools for compliance with Nationwide Mortgage Licensing System (NMLS) regulations.

- Overhauled ProSchools' software development environment to accommodate continuous integration, introducing source code management and an automated build and release mechanism leveraging open source technologies including Maven and Hudson.

Technologies employed

Java, J2EE, Spring, Spring Security, JUnit, JavaScript, jQuery, Tomcat, PostgreSQL, SQL, XML, HTML, Maven, Ant, Mercurial, Hudson, Eclipse, Windows, Linux

REGENCE BLUE CROSS BLUE SHIELD

June 2011 – December 2011, March 2008 – June 2010

Senior Software Engineer – Consultant

Portland, OR

- Multiple contracts combined with full-time employee status.
- Extended Jive Clearspace to facilitate social, community-based functionality within Regence's Web-based member portal, myRegence.com.
- Developed identity management and single sign-on (SSO) solutions to provide other Blue Cross Blue Shield affiliate members access to Regence's Jive community resources.
- Assisted in the design and development of member- and provider-oriented products and services accessible through Regence's Web-based member portal.
- Assisted in the design and development of Regence's Employer Based Reporting (EBR) initiative, a rich Internet application (RIA) responsible for surfacing healthcare payer plan and member data via an interactive, graphical medium.
- Designed and developed EBR's secure access layer, leveraging Spring Security to gate access to reporting functionality based upon user roles retrieved from LDAP services.

Technologies employed

Java, J2EE, Spring, Spring Security, JUnit, Jive Clearspace, FreeMarker, JavaScript, jQuery, ActionScript, WebSphere, Tomcat, Apache, SOAP, PostgreSQL, Oracle 9, SQL, XML, HTML, Maven, Ant, Subversion, Eclipse, Rational Application Developer, Windows, Linux

ARRIS

June 2010 – June 2011

Senior Software Engineer and Architect – Consultant

Portland, OR

- 12-month contract.
- Architected and developed a Google Web Toolkit-based rich Internet application (RIA) responsible for aggregating, reporting and managing errors and messages raised from distributed heterogeneous systems.
- Assumed roles as project architect and technical lead, mentoring team members in agile software development methodologies and continuous integration practices.

Technologies employed

Java, J2EE, Spring, Spring Security, Google Web Toolkit (GWT), SmartGWT, Tomcat, Oracle 11, XML, Maven, Ant, ClearCase, Hudson, Eclipse, Windows, Linux

CAYUSE

2004, 2005 – 2008

Senior Software Engineer

Portland, OR

- Assisted in the architecture and development of Web-based software to facilitate the electronic preparation and submission of federal grant applications within academic institutions.
- Developed the means by which grant applications are submitted to federal agencies, marshaling data to XML for submission via SOAP and published Web service interfaces.

- Leveraged agile software development methodologies, planning and implementing Cayuse product functionality in an iterative manner.
- Developed the means by which grant application data is marshaled between server and client systems, from persistence in a database to its programmatic availability for viewing within the context of a Web browser.

Technologies employed

Java, J2EE, Spring, JUnit, Tomcat, Apache, SOAP, PostgreSQL, Hibernate, SQL, XML, Ant, Subversion, Eclipse, Windows, Linux

SIGNACERT

Architect / Developer / Co-Founder

2004, 2005
Portland, OR

- Designed and developed SignaCert's "Integrity Management Model", a service-oriented architecture (SOA) responsible for harvesting integrity metadata, submitting metadata to a database leveraging Web service interfaces, and verifying system integrity by computing ad hoc hash values to compare against those maintained in the "white list" database.
- Designed the XML and database schemas accompanying SignaCert's integrity metadata database, including the development of a corresponding Java object model for persistence via Hibernate.
- Authored provisional patent applications, contributing to SignaCert's intellectual property portfolio.
- Participated in standards bodies (specifically the Trusted Computing Group) to develop industry standards applicable to SignaCert's Integrity Management Model.

Technologies employed

Java, J2EE, Spring, JUnit, Tomcat, Apache, SOAP, MySQL, Hibernate, JDO, SQL, XML, Ant, Subversion, Eclipse, Windows, Linux

TRIPWIRE

Senior Software Engineer

2001 – 2003
Portland, OR

- Acted as the primary developer for Tripwire's File Signature Database (FSDB) initiative, a means of assessing system integrity by leveraging a "white list" repository of file "signatures" (cryptographic hash values), later to be spun off as a separate business entity, SignaCert.
- Participated in agile software development practices, developing FSDB software by defining and implementing stories within the context of short, sprint-like iterations.
- Designed and maintained the database schemas accompanying the FSDB, including the development of corresponding Java object models for persistence via a combination of JDBC and Java Data Objects (JDO).

Technologies employed

Java, J2EE, Tomcat, SOAP, DB2, JDO, SQL, XML, Ant, ClearCase, Windows, Linux

INFORMIX

Software Engineer 4 / Technical Lead

1998 – 2000
Oakland, CA and Portland, OR

- Architected, developed and served as the technical lead for Informix's Java-based platform- and product-neutral software installation framework.
- Participated as an Expert Member on Sun Microsystems' JSR 38 specification development team.
- Acted as the technical lead and focal point for Informix i.Foundation installation-related applications and technologies.

Technologies employed

Java, InstallShield, Informix, ClearCase

FORTE SOFTWARE

1997 – 1998

Member, Development Staff

Oakland, CA

- Designed, developed, tested and maintained Forté product installation applications for UNIX and PC/Windows platforms employing Java, InstallShield and shell scripts.
- Automated processes related to the packaging and distribution of software via multiple distribution media.

Technologies employed

Java, InstallShield, Perl, RCS, Windows, UNIX

SYBASE

1992 – 1997

Software Engineer 2

Emeryville, CA

- Acted as the technical lead and primary developer for Sybase's SyBooks initiative, the migration of Sybase documentation from FrameMaker to SGML for viewing within an SGML browser.
- Designed, developed and maintained Sybase's product-neutral installation application for UNIX platforms.
- Developed client utility applications bundled with Sybase Open Client.

Technologies employed

C, Perl, SGML, FrameMaker, CVS

IBM

1991 – 1992

Information Developer

San Jose, CA

- Developed internal utilities using REXX to assist IBM's information developers.
- Authored documentation for IBM DB2.

Technologies employed

REXX, DB2, OS/2

LAWRENCE LIVERMORE NATIONAL LABORATORY

1986

Student Intern

Livermore, CA

- Developed applications to parse binary image files for inclusion within multimedia mail messages.
- Work performed in association with the Computer Science Graduate Program of the University of California, Davis.

Technologies employed

C, UNIX

ORGANIZATIONAL INVOLVEMENT

- HIMSS Oregon Chapter Board of Directors 2009 – 2012
- Oregon Health Network, Information Technology Stakeholder Council 2010 – 2012

INTELLECTUAL PROPERTY

- U.S. patent 8,139,588 – Method and apparatus to establish routes based on the trust scores of routers within an IP routing domain
- U.S. patent 8,266,676 – Method to verify the integrity of components on a trusted platform using integrity database services
- U.S. patent 8,327,131 – Method and system to issue trust score certificates for networked devices using a trust scoring service
- U.S. patent 8,429,412 – Method to control access between network endpoints based on trust scores calculated from information system component analysis

HONORS AND AWARDS

- Eagle Scout, Boy Scouts of America 1981
- Supercomputing Honors Program, U.S. Department of Energy 1985