

# Andrew Macheret

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## SUMMARY

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Results-oriented Senior Software Engineer with more than 8 years of hands-on full stack development experience with a knack for seeing the big picture. Dedicated to delivering a superior quality product on time and within budget. Self-starter with natural leadership abilities and strong interpersonal skills. Extremely comfortable with all levels of development, from database design, to building out scalable infrastructure, to implementing complex business logic, to cross-browser UX, to establishing test automation frameworks – you name it, there are no language barriers.

## TECHNICAL EXPERIENCE

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Languages	Java, JavaScript, Bash, Python, Ruby, Perl, AWK, PHP, ASP.NET, VB.Net, C#, C/C++
Notable Libraries	J2EE, jQuery, Prototype.js, Guice, Hibernate, Selenium, JUnit, Google Cast, Android, Guava, Apache Commons, Rails, Django, .NET, MFC, Win32 API, DirectX, OpenGL
Project Management	JIRA, Trac, Git, GitLab, GitHub, Subversion, CVS, Ant, Maven, Jenkins, Make
Markup & Notable Protocols	HTML, XML, JSON, CSV, CSS, REST, SOAP, HTTP, XPath, Regex, XSD, WSDL, OAuth
Databases	MySQL, Memcached, Elasticsearch, MongoDB, DynamoDB
Servers & Services	Node.js, Tomcat, Jetty, IIS, JBoss, Apache, JMeter, Selenium IDE, Graphite, Statsd, Collectd, Docker, Vagrant, PagerDuty, Hadoop, Hive, Kafka
Cloud Technologies	AWS: EC2, RDS, ElastiCache, Elastic Beanstalk, S3, CloudWatch, IAM, DynamoDB, ElasticMapReduce

## PROFESSIONAL EXPERIENCE

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### DeVero, Inc., San José, California

**Lead Application Engineer** ..... July 2014 to Present

**Software Engineer** ..... July 2008 to July 2014

- Led a team of engineers responsible for developing new features and functions as well as the maintenance of existing functionality for the core flagship web-facing application while meeting strict deadlines and adhering to federal HIPAA guidelines.
- As the principal developer from the company's very beginnings, oversaw the company's growth from \$5 thousand to \$10 million annual revenue in 6 years with little to no marketing.
- Mentored and trained junior developers, working closely with them to help them grow and succeed.
- Developed features and functions at all levels of the web stack, including front end JavaScript changes all the way to backend schema design in MySQL, and everything in between in Java, Hibernate, JSP, Tomcat, Apache, and many other languages and technologies.
- Managed all levels of infrastructure – Git and SVN repository workflow, Jenkins continuous integration server, Gitlab server, JIRA workflow configurations, build and release management scripts, Maven and Ant configurations, AWS infrastructure.
- Migrated the company's flagship product from Windows servers in a local data center to a fully AWS hosted cloud solution while maintaining strict HIPAA and HITECH compliance.
- Served on a regular basis as an on-call first responder in the event of outages and critical production bugs.
- Integrated and maintained third party REST and SOAP integrations with many other vendors.
- Established a testing framework utilizing unit tests, integration tests, and selenium tests, as well as load testing with JMeter and end user testing in Selenium IDE.
- Produced numerous prototypes that started as side projects and often became integral parts of the flagship application, such as using Hadoop and ElasticMapReduce to produce analytics on log files, creating a centralized portal for DeVero employees, and the collection of geolocation data for the purposes of user-facing auditing and reporting.

## **International Components for Unicode (ICU), IBM, San José, California**

**Software Developer Co-op** ..... January 2007 to June 2008

- Assigned to the development and maintenance of ICU, ICU4J and ICU4JNI – Open-source APIs for internationalizing applications in C/C++, Java and JNI respectively.
- Refactored, maintained, and ported functionality between C, C++, Java, JNI and Perl.
- Improved performance of the build system by 5x, encoding conversion algorithms by 2x, and locale data loading by 30x.
- Created an end-user tool for remotely updating customer copies of ICU4J with up-to-date time zone data.

## **Mathematics Department, San José State University, San José, California**

**Instructional Student Assistant** ..... August to December 2006

- Assisted in the instruction of Combinatorics to undergraduates. Graded homework papers, wrote complete solutions for students to study from and coached and mentored students having trouble.

## **Tutorial Center, Foothill College, Los Altos, California**

**Academic Tutor** ..... March to August 2005

- Tutored students in programming with C++ and Java in all skill levels, General & Modern Physics, Calculus, Differential Equations, Linear Algebra, Discrete Mathematics, and all lower division mathematics courses.

## **Continuum Lasers, Inc., Santa Clara, California**

**Web Design Intern** ..... June to August 1998

- Overhauled company website, adding server-based scripts for Unix and client-based scripts in JavaScript as well as redesigning basic outline of website.

## **EDUCATION**

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### **San José State University**

- Bachelor of Science, Computer Science, 2008
- Bachelor of Arts, Mathematics, 2008

### **Foothill College**

- Associate of Science, Computer Science, 2005
- Associate of Science, Mathematics, 2005
- Associate of Science, Engineering, 2005
- Associate of Science, Physics, 2005

## **COMPETITIONS AND ORGANIZATIONS**

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### **Competitions:**

- Top 18<sup>th</sup> percentile at TopCoder.com Algorithm Competitions.
  - Ranked 2<sup>nd</sup> for San José State University in 2008.
- Top 200 in Microsoft Imagine Cup Algorithm Competition 2006.
- 2<sup>nd</sup> place in SJSU Math Department *Problem of the Week* 2005.

### **Organizations:**

- Code Across, Contributor.
- SJSU Computer Science Club, Treasurer.
- SJSU Chess Club, Treasurer.
- SJSU Math Club, Member. Helped organize various events and colloquiums.
- SJSU Physics Club, Member.
- Golden Key International Honor Society, Member.

*References available upon request.*