# Andrew Macheret

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## SUMMARY

Polyglot full-stack engineer with almost 20 years of experience. Self-starter with natural leadership abilities and strong interpersonal skills. Worn many hats – backend dev in Java, frontend dev with React, cloud ops in AWS, CI/CD pipelines, database admin, architecting high-scale distributed systems, LLM-powered workflows, many one-off scripts and queries. Deep expertise with Java, SQL, Python, JavaScript, Bash, Docker, AWS services.

## TECHNICAL EXPERIENCE

| Languages: | Databases: |
|---|---|
| ● Java (expert)<br>● SQL (expert)<br>● Python (expert)<br>● Docker (expert)<br>● Bash (expert)<br>● JavaScript (expert)<br>● TypeScript (fluent)<br>● Lua (fluent)<br>● C/C++ (capable) | ● PostgreSQL / Postgres (expert)<br>● MySQL (expert)<br>● Redis (expert)<br>● Memcached (fluent)<br>● Elastisearch (fluent)<br>● DynamoDB (capable)<br>● MongoDB (capable)<br>● Oracle (capable)<br>● SAP HANA (capable) |

## WORK EXPERIENCE

**Superhuman @ Seattle, Washington**
Senior Developer (Superhuman Docs) SEP 2026 – PRESENT

**Atlassian @ Mountain View, California**
Senior Developer (Confluence) JAN 2018 – DEC 2019
Senior Developer (Confluence) JUN 2020 – MAR 2026

- **Databases -** Made hundreds of Postgres query improvements in the Confluence codebase, such as adding cycle protection to all recursive Postgres queries in Confluence, eliminating daily 100% RDS CPU spikes.
- **Backend** - Improved Confluence space deletion duration p90 by 60x and reliability from 95% to 99.99%, reducing support costs for space deletion issues by 85%. Also led a team to implement and release the auto-purging of trashed spaces.
- **Full stack** - Rearchitected the storage format of the Confluence page tree, utilizing Redis Lua scripting, increasing page tree load p90 by 10x and increasing high-end scalability, and improved reliability from 99.9 to 99.99%.
- **AI** - Improved scaling performance of LLM-powered agent Rovo by implementing asynchronous workflows
- **Full stack** - Delivered and maintained dozens of features for the Confluence editor and page tree, including a rewrite of the Confluence editor, improving editor load p90 by 50% and usability for millions of users.
- **Backend** - Lead a team to pioneer the migration of the main internal instance of Confluence from Server to Cloud for 20k internal users.
- **Awards** - Won 1st place globally in Atlassian ShipIt hackathon in 2018, 2019, and 2023

**Google @ Mountain View California**
Senior Software Engineer (Google Assistant) DEC 2019 – MAR 2020

- **Full stack** - Maintenance for Actions on Google (Google Assistant's 3rd party developer interface)

**SAP @ Palo Alto, California**
Senior Software Engineer (Ariba) AUG 2016 – SEP 2017

- **Infrastructure** - Built a fully featured docker environment for onboarding developers
- **Build system** - Upgraded the build system for 2.5 million lines of java (and 5 million lines of other files) from Make to Maven
- **DB Migration** - Migrated that same codebase off of Oracle 11g to SAP HANA
- **Award** - Won 4th place in SAP Ariba Innovation Week hackathon in 2017

**DeVero @ San José, California**
Software Engineer JUL 2008 – JUN 2014
Lead Application Engineer JUL 2014 – FEB 2015
Senior Technology Engineer MAR 2015 – OCT 2015

- **Overall** - Principal developer from the company's very beginnings, oversaw the company's growth from $5 thousand to $10 million annual revenue in 6 years, dominating the market
- **Mentor** - Mentored junior developers, working closely with them to help them grow and succeed
- **Full stack** - 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
- **Infrastructure** - 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
- **AWS Cloud** - Migrated the flagship application from Windows servers in a local data center to a fully AWS hosted cloud solution while maintaining strict HIPAA and HITECH compliance
- **On call** - Served on a regular basis as an on-call first responder in the event of outages and critical failures
- **Backend** - Integrated and maintained REST and SOAP integrations with third party vendors
- **Test frameworks** - 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
- **R&D** - 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

**IBM @ San José, California**
Software Developer Co-op (ICU) JAN 2007 – JUN 2008

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

## EDUCATION

**San José State University @ San José, California**
Computer Science, Mathematics 2008

**Foothill College @ Los Altos, California**
Computer Science, Mathematics, Engineering, Physics 2005