

Jason Plumb

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Summary:

Seeking a position with a creative and energetic engineering team to build killer solutions. Dedicated software engineer with specific interests in scalable APIs, REST, big data, architectural patterns, languages, and artistic applications of technology.

Experience:

Adidas Digital Sports, Portland, OR

Senior Manager Software Engineer (Sep 2016 - Dec 2017)

- Team lead, instrumental in the design, construction, and delivery of the adidas AllDay server-side platform (supporting iOS and Android mobile apps).
- Owned the backend REST API design, system architecture, development process, tech debt paydown, security, and scalability.
- Built a robust and mature CI/CD multi-stage pipeline
- Wore so many hats: coder, mentor, reviewer, devops, tester, interviewer, tpm, agile coach, feature concept collaborator, story writer, sprint planner
- Collaborated/coordinated with onsite and offshore mobile, UI, UX, QA, devops, data science, marketing, growth, legal, and management across 3 timezones in 5 countries.
- Handled data ingress and aggregation for 10M+ daily data points (200k users)
- Zero unplanned production downtime in 10+ months
- Stack: node.js, hapi/express, jwt, docker, couchbase, s3, aurora, bintray, ecs, jenkins2, elb, cognito, terraform, new relic, redshift, sqs, react[...]

FlightStats, Portland, OR

Senior Software Engineer (Jan 2013 - Sep 2016)

- Team lead on several large-scale data aggregation applications and microservices/REST APIs.
- Architected, designed, and implemented early version of the FlightStats data hub (<https://github.com/flightstats/hub>) using Spark, Jetty, Jersey, Guice, Gson, Gradle and friends.
- Designed and implemented RESTful microservices to support FlightStats' travel disruption management platform. Built role-based entitlements APIs using HTML microdata with Spark, Jetty, Jersey, Guice, Gson and friends. Integrated new APIs with existing/legacy systems.

- Bootstrapped FlightStats next-generation Data Acquisition platform as a team lead in 2014. Designed and built fast and scalable microservice APIs to support realtime collection/normalization of flight status and position data from airline, airport, web, and other heterogeneous industry sources (hundreds of millions per month). Leveraged technologies like Node.js, AWS, Docker, GitHub, Grunt, Express, Bootstrap, Jade, Zookeeper, Spark, Guice, jOOX, Gson, Lombok, Jenkins, New Relic, etc.

Parallel Studio / Ethan Rose, Portland, OR

Contractor / Consultant (2014-2015)

- Assisted artist Ethan Rose in the hardware/software design, construction, and installation of two permanent sound-art installations in Microsoft building 83 in Redmond, WA.
- Elements - Ambient, experiential sound composition for the lobby of building 83 at Microsoft. The piece reads realtime data from a roof-mounted weather station and converts the information into evolving sound parameters across 60+ ceiling mounted speakers. Used Pure Data (Pd), node.js, Open Sound Control (OSC), GitHub, DropBox, Windows. See <http://www.ethanrosemusic.com/elements>
- Landings - Complex swelling and decaying sounds spill out of 4 elevators when passengers arrive at their destination. Sensor data is collected via hardware interface to custom/commissioned elevator controller firmware. Elevator floor arrival and door opening signals trigger sound composition in Pure Data (Pd). Used Pd, C/C++, Open Sound Control (OSC), GitHub, DropBox, Windows.

IFS (State Street)

AVP (May 2011 - Dec 2012)

- Refactoring! More refactoring! Wrangling legacy apps into submission. Championing best practices, developing coding standards, working with offshore teams, fighting the good fight...with throwing stars.
- Rewriting and refactoring legacy code in a gargantuan code base. Developing new features and bug fixes.
- Advocating best practices, performing code reviews, developing standards guidelines
- Technologies: Agile (XP), Java, IntelliJ IDEA, JUnit, swing, Spring framework, Sybase, RMI, Maven, Jenkins, Subversion, Cobertura

Chrome Systems, Portland, OR

Senior Software Engineer (Jan. 2010 - May 2011)

- Designing and crafting high-performance webservices while adding features and improving code quality of existing products
- Integrating heterogeneous 3rd party data products into new and existing Chrome webservices
- Building rich-client web applications using GWT for product/sales proof- of-concept demos
- Advocating best practices and encouraging the adoption of contemporary tools
- Championing unit testing, code reviews, code reuse, test coverage
- Technologies: Java, IntelliJ IDEA, JUnit, Mockito, Ant, Subversion, Metro/JAX-WS (SOAP), WSDL, JAXB, Ant, Hudson/Jenkins, GWT, JDBC, Cobertura

Ensequence, Portland, OR

Senior Software Engineer (Nov. 2007 - Dec. 2009)

- Designing and building tools to enable cutting-edge interactive movie and television experiences.
- Shipping a feature-rich and robust Blu-ray (BD-J) runtime abstraction on hundreds of movies and millions of discs worldwide.
- Championing modern software engineering tools and methods to foster an agile environment.
- Technologies: Java/J2ME, Eclipse, BD-J, JUnit, Ant, Ivy, AspectJ, Subversion, CVS, Proguard, Bugzilla, TeamCity, Hudson

Qsent Inc, Portland, OR

Senior Software Engineer (Dec. 2003 - Nov. 2007)

- Designed, implemented, and maintained high-volume data processing systems for data replication and realtime queries.
- Technical project lead on large data processing and replication engine, responsible for a substantial percentage of company revenue.
- Technologies: Java 5.0, Eclipse, JUnit, Spring, JDBC, Oracle, MySQL, Tomcat, SOAP, XML, WSDL, JSP, JSTL, JMS, JMX, JNDI, JNI, bash, Perl, CVS, LDAP, Active Directory, Anthill, Ivy, Fit, Hudson.

Fluid Logic, Clackamas, OR

Embedded Engineer Contractor (2002-2004)

- Designed and prototyped industrial chemical process test equipment (hardware and software). Built their website, ran their network and email. Details upon request.

GBSD Technologies Inc., Lubbock, TX

Embedded Engineer Contractor (2003-2004)

- Embedded software for e911 cellphone location system. Details upon request.

Operator Service Company, Lubbock TX

Programmer/Analyst III, Project Lead (1997-2004)

- Designed and implemented control process and communications API for telephone line control device and out of band telecom switch signaling.
- Designed and implemented directory assistance gateway server, including custom document type definition (DTD) for extensible API in XML over TCP/IP. Implemented suite of protocol converter daemons for multiple data vendors, security functions, usage tracking, and billing.
- Designed and implemented national directory assistance client application for call center use (50,000+ calls / day).
- Designed and implemented generic framework for call center applications in a Windows environment.
- Generated database front-end applications, web-based reporting systems, automated billing record generation, operator activity auditing, operator account management interfaces, server and network monitoring processes, and numerous other infrastructure applications.

Extensive programming skills:

- Java ecosystem (18 years)
- Node.js (4+ years) / Javascript (10+ years)
- Agile development practices (13+ years)
- REST / API design (5+ years)
- AWS (5+ years)
- Docker (4+ years)
- Concurrent/parallel/multithreaded/asynchronous software design
- Continuous integration / continuous delivery

Other software experience:

- Python, bash, Pure Data (Pd), Groovy, Scala, C/C++, Perl, PHP
- NoSQL: DynamoDB, MongoDB, Couchbase, Redis, Cassandra, S3
- SQL: PostgreSQL, MySQL, Aurora/RDS, Oracle, MSSQL, Sybase, JDBC/ODBC
- React, CSS, SASS, webpack, jQuery, Bootstrap, Materialize, AJAX, d3.js, p5.js
- JSON, YAML, XML, DTD, XSD, BNF
- Linux, OSX, Windows operating systems
- GNU make/compile/debug toolchain
- RS232, SPI, and other device interface protocols
- 8051, x86, PIC assembly, 68HC11/12 assembly

Education:

- BS Electrical Engineering, Texas Tech University (Cum Laude)
- BS Computer Science, Texas Tech University (Cum Laude)

Activities/Hobbies:

- Portland Dorkbot [People Doing Strange Things With Electricity] (co-overlord)
- Contributor to Futel (futel.net, nonprofit payphones)
- Alameda Elementary Walk/Bike program coordinator (PTA)
- DIY/synth/hobbyist/hacking/electronics/web/art/music (ongoing)
- American Field Service 1 year foreign exchange to Dortmund, Germany (1991-1992),
- Bicycling, bike advocacy, yoga

Hardware Skills:

Available upon request.

References:

Available upon request.