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Summary

I have over 20 years of experience in software and technology. I've worked on many startup teams from the ground floor (0+ employees) as well as a co-founder. I've been leading and building successful engineering and technology teams for over 12 years. I'm a hands on leader and try to spend the bulk of my time writing code and architecting software systems. I take pride in building world class engineering teams capable of solving any problem and working efficiently while doing it.

Experience

Feb 2018 – Current: Chief Technology Officer, Blockfolio, Santa Monica California

- #1 crypto portfolio tracking application in the blockchain space
- Completely re-architected existing system from front to back with scalability in mind
- Hired a world class team of engineers, product and designers
- Guided development of many in-house blockchain initiatives from inception to deployment
- Developed continuous integration pipelines for automated builds and deployments
- Designed and built a system for gathering trade data in real time for over 90,000 crypto currency pairs for use in charting and real-time and historic pricing data
- Designed and built a system for sending various types of price alerts as push notifications to many millions of users. This system processed an average of 185 million alerts an hour.
- Technologies: Java, Spring, JavaScript, React Native, PostgreSQL, Cassandra, Amazon Web Services, Kinesis, SQS, Redshift, Terraform, CircleCI, InfluxDB, NodeJS

June 2013 – October 2016: Chief Technology Officer, Flipagram, Santa Monica California

- #1 app in 81 countries, backed by Sequoia and Kleiner Perkins, sold to Bytedance in 2017
- Served on the board of directors and provided technical and product guidance at the board and executive level
- Principal engineer of the Android app, over 50 million downloads on the google app store, maintained a 4.5+ rating, awarded top developer badge by google
- Principal engineer for the back-end platform comprised of many different technologies including PostgreSQL, Cassandra, ElasticSearch, Java, Spring, etc. Scaled to over 6k requests per second at it's peak.
- Acted as systems engineer and administrator for the early years of the company, application deployment, auto-scaling configuration, as well as data center cost analysis and planning.
- Hired a team of over 40 engineers across 7 teams to scale the company throughout it's 4 years before being acquired.

- Technologies: Java, Spring, Python, Ruby, Cassandra, PostgreSQL, Android, React Native, NodeJS, Amazon Web Services, Beanstalk, Redshift, SQS, Kinesis, FFMpeg, Android Multimedia APIs

June 2012 – June 2013: Chief Technology Officer, Cheers, Culver City California

- Built a social network similar to that of Instagram except with a focus on positivity.
- Responsible for building a team of engineers to build out the cheers platform.
- Analyzed the existing platform deploy to google app engine and put together a plan for re-building it and migrating the existing data and users to amazon. Completed the task in only 3 months and only hired 2 developers to the team (for a total of 4 engineers).
- Used java for the back-end service on top of cassandra, mongodb and postgresql, python and flask on the front-end for webviews in the iOS app.
- Technologies: Java, Python, PostgreSQL, MySQL, MongoDB, Cassandra, Cordova, Android

May 2010 – June 2012: Vice President of Engineering, ShopNation.com, Santa Monica California

- Responsible for the finding, hiring and managing of a team of developers to build and maintain the ShopNation platform.
- Responsible for the entire architecture of the ShopNation software platform and supporting applications including the database, service layer, web tier, administrative and data normalization tools and applications and system build out.
- Used a combination of MongoDB, MySQL and Lucene to implement a robust EAV for the ShopNation product database and search engine.
- Responsible for the development and regular use of ShopNation's release and build management system built primarily with Maven and Bash shell scripts.
- Designed an entire data center build out to host the ShopNation platform completely on Amazon Web Services utilizing Amazon products such as EC2, S3, RDS, SQS and others.
- Started and maintained an open source PHP framework based on The Spring Framework for java called pmvc-framework.
- Started and maintained an open source framework for doing object relational mapping via XML files for MongoDB called mongo-java-orm (or mjorm).
- Technologies: MongoDB, MySQL, Linux, Apache, Tomcat, Java, PHP, Smarty, pmvc-framework, The Spring Framework, Hibernate, JSON-RPC, Maven, Continuum, Lucene, etc.

April 2009 – May 2010: Senior Software Engineer/Web Manager, BigStage Entertainment, Sherman Oaks California

- Responsible for the finding, hiring and managing of a small team of developers to build and maintain internal and third party web based software.
- Responsible for the management and eventual replacement of an offshore development team.
- Responsible for release management of many software projects spanning web, mobile and others.
- Gathered business and technical requirements to lead architect and implement the next generation PortableYou API: a JSON-RPC based web API for integration of the BigStage core technology into games, web promotions, mobile offerings and more using Java, Spring, Hibernate, JSON-RPC, FreeMarker and others.
- Built client APIs for the PortableYou JSON-RPC API in a wide variety of languages including PHP, Perl, Java, Python and JavaScript. Worked with third party companies to integrate BigStage technology into their applications.

- Started and maintain an open source project for the use of JSON-RPC within a java/spring environment using the spring RemoteExporter API called jsonrpc4j ¹.
- Created an Android application that showcased the core technology on android enabled phones. Application included network, camera, json-rpc and other functionality.
- Technologies: Java, PHP, MySQL, Amazon Web Services, FreeMarker, JSON-RPC

July 2 2007 – April 2009: Chief Architect/Senior Engineer, Nesting.com, Santa Monica California

- Responsible for finding and hiring for an engineering team.
- Procured, configured, installed and maintained machines for the corporate infrastructure including file servers, QA servers, build machine and VPN server.
- Responsible for configuring and maintaining production web, database and file servers (Debian Linux) including Tomcat, Apache, MySQL and others.
- Used maven and custom Maven plugins to create an engineering work environment as well as an extremely capable QA and production deployment methodology and continuous integration with continuum.
- Created software standard of quality guidelines for the engineering team to follow and enforced them with unit tests (we required 100% line coverage) and Checkstyle.
- Architected and coded the nesting.com website from the ground up using a plethora of opensource software and libraries including Tomcat, Apache, MySQL, FreeMarker, Spring, Hibernate, Java 1.6, Prototype JavaScript library.
- Started two opensource projects for libraries that we created and used: spring-webmvc-generics ⁴ (generics friendly controllers) and spring-eventmanager ⁵ (event dispatching/handling framework).
- Responsible for gathering business and functional requirements for features to be implemented and estimating completion dates as well as performing task delegation to other members of the engineering team.

July 2006 – May 2007: Senior Engineer, BeJane.com, Burbank California

- Wrote modules for the Drupal CMS that added user facing functionality and administrative functionality to the bejane.com website.
- Created a JavaScript library for doing a lot of common front-end related operations.
- Wrote Ant, Perl and Bash scripts for performing automated builds that did things like deploy code, branching, tagging, etc.
- Started a Java based project that was to eventually replace the Drupal system. Used Maven2 and continuum to setup continuous integration including JUnit testing, Checkstyle, code coverage (with Cobertura) and many other reports.

June 2003 – July 2006: Senior Engineer, LowerMyBills.com, Santa Monica California

- Designed, implemented, and deployed a “matching engine” server that used rules defined by thousands of providers and rules from LowerMyBills themselves to match user inquiries with providers. Used Spring, Jetty, RMI, Spring’s HTTPInvoker, hibernate, and others. My matching engine increased revenue in the “debt” vertical by 20%.
- Designed and implemented the application's co-branding framework. With this framework lowermybills.com was able to co brand with eBay, EarthLink, AOL, and others.
- Migrated a web application using an existing proprietary web framework to JSF / Tag libraries / Struts / Hibernate.

- Did extensive research and testing/load testing for migrating an existing application from JRUN to Tomcat with clustering and load balancing. Identified problem causing differences between the application servers and ways to modify the application's code on the new application server.
- Created build scripts with ANT and Perl for performing SCM related tasks as well as compiling, packaging, and deploying a web and B2B application to a number of servers.

April 2002 – Jan 2003: Senior Programmer / Architect, California CAD Solutions, Modesto California

- Designed, architected, and programmed many GIS solutions on a variety of platforms including ColdFusion, ASP.NET, J2EE (Tomcat), and C++.
- Wrote a GIS application for the PocketPC that communicated with a Trimble Pocket PathFinder GPS unit on a COM port, and saved information in a pocket access database using C++.
- Designed and architected a J2EE solution for Homeland Security and damage assessment called Crisis Commander.
 - Interfaced with many different database platforms including DB2, Oracle 8/9i, SQL Server, Microsoft Access, DBF, SHP, SDF, MySQL, and many more.

January 2001 – March 2002: Senior Applications Developer, Chemtracker Technologies Inc., Palo Alto California

- Designed and programmed a custom MVC (Model View Controller) system using J2EE Servlet and JSP technologies.
- Created a chemical inventory management system using Oracle 8i and a web based front end that used HTML and JavaScript to create an optimal user experience.
- Created an API that generated PDF and HTML reports from the database using an XML standard that I created.
- Wrote Oracle PL/SQL stored procedures for performance driven SQL queries.

June 2000 – January 2001: Programmer / Designer, 2Wire Inc, Milpitas California

- Used ASP and SQL Server 7 to create, and maintain, a portal website for owners of the 2Wire HomePortal, a residential gateway router.
- Worked closely with the embedded systems team to create a web based front end for the HomePortal so users could manage their home network easily from a web browser.
- Created a bandwidth metering application for the 2wire.com website where the public could measure their connection speeds to the internet.

November 1999 – June 2000: Programmer / Designer, Plexsys.net, San Francisco California

- Created and maintained a searchable database of music and sound effects for users to preview, download, and license using ASP and SQL Server, supported this system for 5 months until we later ported it to a J2EE solution.
- Wrote many networked Java web based games that kept track of users scores that were used on client's websites.

March 1998 – November 1999: Programmer / Designer, PoliceOne.com, San Francisco California

- Designed and maintained an on line community for law enforcement officers using Perl, HTML, and MySQL.
- Wrote APIs for integrating with a third party web based email service for use within the website.