Landon Kuhn

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Email  : landon9720@gmail.com
City   : Portland, Oregon, USA
Phone  : 971-645-5501
Resume : https://github.com/landon9720/resume
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I am seeking to continue my career in software development and software engineering leadership.

Summary

Languages

- C/C++
- Java
- JavaScript
- Perl
- Python
- Ruby
- Scala

Libraries

- ASP.NET
- Akka
- Apache Lucene/Solr
- Apache Spark
- D3
- Google Charts
- Google Maps API
- Guava
- Hibernate
- JSP
- PHP
- Play
- Ruby on Rails
- Servlet
- Spray.io
- Spring Framework
- Struts
- Underscore
- YUI
- jQuery

Data

- Amazon DynamoDB
- Amazon Redshift
- Amazon S3
- ETL
- Graph (Neo4j)
- JMS
- JSON
- MongoDB
- OLAP/MDX
- REST
- Redis
- SOAP
- SQL (MySQL, MSSQL, PostgreSQL)
- XML
- ZooKeeper

Tools

- ClearCase
- Git
- Intellij IDEA
- JIRA
- Maven
- Perforce
- SBT
- Subversion
- Visual Studio

Environments

- Amazon Web Services
- Apache Tomcat
- Web Browsers
- J2EE
- JVM
- Linux

- Microsoft .NET
- Microsoft Windows CE

Practices

- Asynchronous programming
- Continuous integration and delivery
- Dependency injection and inversion of control
- Domain-specific languages
- Functional programming
- Iterative and collaborative development
- Mock objects
- Programming patterns
- Test-driven development
- Unit and functional testing

Interests

- 2D graphics programming
- Automata, simulations, emergent behavior
- Genetic algorithms, machine learning

Experience

Janrain

Software Architect - Portland, Oregon - 2013-2015

> Janrain provides social sign-in and user profile management services for web sites and mobile applications.

- Janrain products are implemented as microservices which are configured to work together for individual customer requirements. At Janrain, I lead the effort to unify configuration data in a single system of record. This enables centralized administration, enables customer self-service, and reduces configuration errors. My contributions included design and implementation of services for managing configuration data, featuring a DSL for modeling and transforming data over a graph database with compile-time correctness guarantees. I also drove integration across project teams, use-case analysis and modeling, and socialization of project benefits and goals.

- Janrain services produce profile and event data from sources including social networks, web forms, and user behavior. At Janrain, I lead the effort to build analytics products that leverage this data. My responsibilities included technology proof-of-concepts (Scala, JavaScript, Google Charts, Apache Spark, Neo4j, Amazon Web Services), vendor evaluations (Tableau, QlikView, Birst, GoodData), definition of system architecture, project planning, and project leadership.

- Janrain manages engineering projects using the methodologies of scrum, continuous delivery, and iterative development. At Janrain, I defined, prioritized, and sequenced work. I collaborated with individual contributors, and drove stakeholder understanding and alignment. I facilitated process meetings, including sprint planning, sprint retrospective, and demonstrations of progress.

Marin Software

Senior Engineer - Portland, Oregon - 2012

> Marin Software allows advertisers to manage online marketing campaigns across a variety of publishers, including Google and Facebook.

- Developed search features and performance improvements. Developed search and analytic web services. Developed browser library for asynchronously loading search and analytics data, allowing progressive load of business data.

ClearAccess Inc.

Senior Engineer - Vancouver, Washington - 2009-2012

> ClearAccess develops Auto-Configuration Server (ACS) software and customer-presence equipment (CPE) firmware delivering flexible and scalable device and application management based on the Broadband Forum's TR-069 standard. ClearAccess was acquired by Cisco Systems in March 2012.

- Responsible for development of the ACS product, including: 1. web services and background processes implemented in Scala and Java, 2. user interfaces utilizing AJAX libraries and patterns, 3. data storage (MySQL, PostgreSQL, and Oracle Database, Mongo, Solr) and ORM (Hibernate), and 4. device communication scripting using server-side JavaScript interpreter.

- Developed search and reporting stack, including: 1. object-to-document mapping library converts relational business entities to search documents, 2. background process services requests to index business entities and other index maintenance tasks, 3. domain-specific language parser for representing complex search queries, and 4. reusable UI components for integrating search and reporting features throughout the product.

- Responsible for operational support of production failures. Role includes troubleshooting production environments, instrumenting monitoring and diagnostic endpoints, and fixing coding errors. Work needs to be completed quickly and accurately.

- Managed product releases, including work prioritization and assignment. Communicated with stakeholders and produced technical requirements, with focus on customer satisfaction and cohesive software architecture. Developed and executed release process to produce deliverables including build artifacts and documentation.

Qualcomm, Inc.

Senior Engineer - Portland, Oregon - 2001-2009

> Qualcomm designs, manufactures, and markets wireless telecommunications products and services based on its CDMA technology, and delivers integrated wireless applications and services to businesses around the world.

- Advanced adoption of hosted web services using J2EE, AJAX, and related technologies. Leader in technology and best practice adoption. Advanced the use of unit testing through advocacy, presentations, mentoring, and championing related techniques such as dependency injection and mock objects. These practices enhance software quality and increase component reusability across projects.

- Created an engine for processing long-haul driver logs according to the FMCSA Hours-of-Service regulations. Implemented the engine in C for maximum source compatibility across platforms. Implemented Java and .NET layers to enable reuse by various projects. Developed a service for generating PDF and HTML reports. Developed a service for delivery of email and SMS alert messages based on application-defined logic. Developed a Google Maps control for geofence manipulation and back-end logic for detecting geofence events.

- Developed technology and product demonstrations. Prototyped wireless-enabled consumer electronic devices with web services and UI. Developed proof-of-concept musical ring-tone generation software based on genetic algorithms.

Project highlights:

- FreightWatch is a J2EE web application for real-time monitoring of valuable freight. Features include mapping, geofencing, and alert notification via email and SMS. The application is integrated to Qualcomm and customer back-end systems using REST and JMS interfaces. The application utilizes web application technologies such as AJAX and Google Maps. Implemented the user interface, database, geofencing, alert delivery, and system integration layers. Worked iteratively, with frequent customer interaction and dynamic requirements.

- CER is a data recorder for long-haul trucks. Data is transmitted by satellite to Qualcomm servers and provided to customers via web and SOAP interfaces. CER is implemented using J2EE and related technologies. Provided requirements analysis, design, implementation, test, and deployment.

- AA&D integrates customer data with vehicle position streams to detect business events. Implemented the user interface, customer integration interface, and business-logic state machine.

- Developed a Java application container for the IBM iSeries platform, providing services such as thread pooling, task scheduling, durable event delivery, inter-process communication with a J2EE tier, and domain-specific services such as customer data modeling and persistence.

Education

Portland State University - BS Information Systems and Quantitative Analysis - 2001

Coursework included C, C++, C#/.NET, SQL, data structures and algorithms, data modeling, finance, and marketing.