

Steve Perkins

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SUMMARY

I am a versatile Java developer with more than 13 years of software development experience and a Master's degree in system design. I've been involved in all SDLC phases on a variety of projects, including APIs, web services and web applications, and business and test automation. I am comfortable developing responsive web UIs, web services, business logic, and databases either as a sole contributor or part of a team.

WORK EXPERIENCE

Partner/Developer

KBS Systems, LLC

June 2015 – Present

- Designed and implemented risk data dashboard application for large insurance provider
 - Consumed several internal and third-party web services to efficiently determine, cache, and display underwriting risk factors
 - Integrated with client's Single-Sign On system
 - Integrated with client's underwriting system
 - Increased efficiency of processing new business applications
- Designed and implemented KB Geo (<http://www.kbgeo.com>), a high-performance distance-to-coast RESTful API providing a calculated underwriting risk metric
- Designed and implemented underwriting rules engine with web service and web interface
- Designed and implemented web service to deliver crime risk by location
- Designed and implemented RESTful web service to deliver high-performance distance to nearest fire station
- Developed skillitz.me Alexa skill that crowd-sources voice responses
- Designed and implemented mindwave-bluetooth, a library for communicating with Mindwave Mobile EEG headsets
- Worked with neuroscience and general science professors to aid students in EEG exploration

Technologies: Java, REST, Spring, Angular, Bootstrap, jQuery, JUnit, soapUI, Postman, Git, SVN, Linux, Windows, MySQL, PostgreSQL, Eclipse, AWS EC2, AWS Lightsail

Senior Software Engineer

i3 Product Development

April 2017 – Present

- Designed and developed IoT solution to surface on-board engine diagnostic data to web and mobile apps
- Designed and implemented multi-threaded data graphing software for streaming scientific instruments
- Implemented multi-threaded programming, calibration, and data-to-cloud software that interacts with several different hardware devices over multiple serial ports and multiple protocols
- Designed and implemented service order entry and technician scheduling web application and RESTful API

- Designed and implemented Alexa skill to control slow cookers
- Designed and implemented Alexa skill to control residential thermostats
- Designed and implemented maintainable new-feature refactoring and integration plans for existing web applications and RESTful APIs
- Added performance and stability improvements to existing web applications and RESTful APIs
- Performed deep troubleshooting, bugfixes, and emergency production deployments
- Configured and managed cloud services on behalf of clients
- Reverse-engineered products to re-implement their features
- Performed security analysis of client systems
- Managed mobile app development and testing
- Designed and implemented creative prototyping solutions at cloud, server, web, mobile, chip, and desktop levels
- Acted as sales engineer for prospective clients and existing clients with prospective projects
- Worked directly with clients to gather requirements, manage expectations, and provide email, phone, and onsite support
- Recognized as world's foremost expert on Watchdog communication protocol

Technologies: Amazon Web Services, Microsoft Azure, Java, .Net, C#, REST, web services, Spring, Angular, AngularJS Material, Bootstrap, jQuery, HTML, CSS, Maven, Gradle, JUnit, Python, WebSockets, VB6, jSerialComm

Senior Solutions Consultant

Omni Resources

January 2015 – March 2017

- Designed and developed Fans of Fury mind-controlled game (GitHub: <http://bit.ly/1QAtu3e>)
- Designed and developed manufacturing request approval system for a global client
- Enhanced and secured web applications
- Built prototype location-centric Xamarin/iOS mobile app for a national client in the transport industry
- Worked in a team to convert Struts web application to Spring/Java REST services for a major TRICARE insurance contractor while gaining increasing responsibilities
- Performed Git Master duties, such as advising branching strategy, Git training, whole-codebase merges, and fixing commit issues
- Worked with difficult stakeholders to gather requirements and design a document management system
- Obtained ADP II security clearance

Technologies: Java, .Net, C#, REST, web services, Spring, Angular, Bootstrap, jQuery, Maven, JUnit, soapUI, Xamarin, Raspberry Pi, Python, WebSockets, Windows, Mac OS, MySQL, SQL Server, Eclipse, Rational Software Architect, IIS, WebSphere

Senior Software Engineer

Networked Insights

February 2013 – December 2014

- Fixed high-priority bugs and implemented high-priority feature requests with low turnaround times
- Created and maintained REST web services in an SOA environment
- Created and maintained features in core web application

- Designed and implemented custom UIs for small projects
- Managed team's code integration, tagging, and participated in sprint-based deployments
- Tested team's work, identified issues, and performed troubleshooting to determine root cause
- Implemented and maintained business automation
- Implemented and maintained data warehousing process
- Provided support for remote end users

Technologies: Java, web services, Spring, MyBatis, Maven, REST, JUnit, EasyMock, PowerMock, Mockito, jQuery, Angular, CSS3, HTML, JodaTime, ActiveMQ, Amazon S3, Wicket, Linux, Mac OS, Tomcat, PostgreSQL, Eclipse, SVN

Applications Engineer

Gates Business Solutions

October 2011 – February 2013

- Initiated, designed, implemented, and supported test automation solution to save \$11k/yr
- Developed web services API to allow flexible third-party automation of the auto claims process
- Developed and maintained web service integration between internal and external clients
- Authored extensive technical documentation for internal and external clients
- Provided development support to internal and external clients

Technologies: Java, web services, Mule Enterprise Service Bus, CXF, Hibernate, Guice, Ivy, SOAP, XML, WSDL, REST, Apache ActiveMQ, JUnit, EasyMock, Linux, Windows, Tomcat, MySQL, Eclipse, SVN

Java Developer III

Total Administrative Services Corp

March 2011 – October 2011

- Initiated and led effort to save \$483,000/yr and increase developer productivity by 1.6 man-years annually
- Implemented customer-facing web application using technologies new to the organization
- Instituted design processes to increase software quality
- Worked with offshore developers to develop new functionality and resolve bugs
- Managed team's development and build server

Technologies: Java, JSF2, Primefaces, JBoss services, EJBs, Hibernate, JRebel, Apache Ant, CSS, HTML, Linux, Windows, JBoss, MySQL, Eclipse, SVN

Sr. Applications Engineer

Global Science and Technology

March 2010 – March 2011

- Designed and implemented automated metadata harvesting and aggregation software
- Used Test-Driven Development (TDD) in conjunction with other agile methods to create stable code with fast turnaround times
- Supported testing team and automated test procedures
- Worked in an agile team to develop client access API to disparate distributed data sources using Object-Oriented Programming best practices and design patterns
- Designed and implemented API demonstration application using Java Swing and REST services
- Designed and implemented product distribution website

- Designed and implemented automated software acceptance testing application allowing tests to be defined using simple wiki syntax
- Wrote technical documentation and user guides
- Analyzed and evaluated project requirements and designs
- Obtained Public Trust security clearance

Programmer Analyst

JT Packard

April 2008 –March 2010

- Improved performance of 150-user client/server data collection application by 93% and decreased error rate by 61% in one year
- Introduced 74 new features in one product at a 96% success rate
- Automated business processes and integrated disparate business systems
- Used Web services (SOAP and REST) to integrate isolated systems
- Created, maintained and administered mission-critical desktop, server, and web applications
- Participated in all phases of the Software Development Life Cycle using a simplified Agile development process
- Provided customer support for internal applications

EDUCATION

**M.S. Information Technology
System Design and Development**
Capella University

**B.S. Information
Technology**
Herzing University
Magna Cum Laude

**B.S. Technology
Management**
Herzing University
Magna Cum Laude
