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ANDROID | LINUX | WINDOWS
JAVA | C/C++ | RUBY
PROJECT MANAGEMENT | SERVER ADMINISTRATION | SOFTWARE VALIDATION

Summary

- Seven years experience developing applications in several languages, with a focus on Java and C++
- Results oriented, with proven success owning projects from framework design and development to team building and process reform
- Active member of the programming community, with several projects in production and development

Skills

Programming Languages

Proficient:

Java, C/C++, Ruby, Javascript, C#, Python

Familiar:

Bash, PowerShell, Golang, Slim, Sass, PHP, Lua, Verilog, ARM Assembly

Tools

ADB, MonkeyRunner, Selenium, Android Studio, Angular, Git, Subversion, Apache, PostgreSQL, SQLite, Mongo, Tomcat, Node, Express, Passenger, Visual Studio, CLR, .NET, Jenkins, FPGA. PLC, Fiddler, Eclipse, Tarantula, Bugzilla, Jama, Jira, Rally, Arduino, Unity, Ant, Devise, Rails, MEAN

Work Experience

Intel (contract), January 2014 – present

Lead Validation Engineer: IOC (January 2015 – present). Intel Online Connect (IOC) is a collection of biometrics solutions that can be accessed through a web browser via Javascript APIs. I'm the lead validation engineer for this project's inception, involving the merger of three separate full-scale departments.

- Developed automation framework in Java to handle full-stack validation of our DOM-based client.
- Wrote C# test framework and C++ adapter library to interface native code to .NET environment, testing four internal servers and two external.
- Kept validation successful during 60% cut in time to market.
- Oversee validation effort, including product design, process, and hiring decisions.

Software Development Engineer in Test: BCA (July 2014 – present). Biometric and Context Agent (BCA) is a library of middleware components that provide biometrics resources, hardware based cryptography, cloud verification, and authentication persistence primarily through Windows, but also supporting Android, iOS, and macOS.

- Created several applications that are included as example usage with our production SDK.
- Designed, developed, and automated complete test suites for several of our new products as well as old, under-tested products using Java, C++, Python, Gtest, Boost, Ruby, Golang, and Batch and Shell scripting to interface between Windows, Android, and our Linux-hosted servers.
- Built automation system in C++ and Python to test persistent authentication between our Windows SDK and a paired Android device.
- Built five stage prototype end-to-end server network to test the first implementation of Software Guard Extensions (SGX) hardware-based encryption technology.

Laboratory Manager (April 2014 – August 2014). I managed a \$35 million validation lab at Intel with over 150 personnel in eight different groups. My responsibilities included tracking and distributing prototype microprocessors and systems, sourcing and allocating inventory, handling IT issues, and facilitating communication between unrelated departments in several locations.

- Took over laboratory server administration, centralizing server-based software for six different teams.
- Passed three audits of our 500+ CPUs with 100% accuracy.
- Built and authored PHP based wiki documenting the procedures of my job, as well as BKMs for prototype systems and microprocessors.

Platform Validation Technician (January 2014 – August 2014). I built and troubleshoot bleeding edge systems for validation teams covering six different technologies supported by Intel architecture. New systems and firmware are being created on a daily basis, and it was my responsibility to discover how the configurations function with little or no documentation.

- Set up test environments and developed testing and configuration documentation for four different validation teams, covering 18 different architectures.
- Ran validation tests for NFC, iSCT/iRMT, IPT, BCA, and NP technologies.
- Brought turn around of build orders from an average of three weeks to 24 hours.

The Slash & Hyphen, August 2013 – present

Software Developer. This is my personal Google Play account and associated website, hosting completed Android and Rails applications. Projects include framework development and integration, full-stack web development, and project management.

- Created Rails website with accompanying API to serve socially oriented Android application.
- Customized framework to support graphical board game.
- Developed UI framework to dynamically display large sets of data.
- Consistently attend Meetups and seminars to augment my skills with Android and Rails.

Awesome Express, 2005 – 2014

Legal Transcriptionist. I was self-employed as a legal transcriptionist, producing written documentation of court proceedings. Work required meeting critical deadlines, extreme accuracy, and excellent communication skills.

Blue Joe Coffee Company, 2002 – 2006

Warehouse Manager. I managed an entrepreneurial coffee roasting company for four years; worked with importers, handled roasting schedules and inventory. I interacted with large clients on a daily basis to understand and address their needs, and managed a team of three employees, including employment decisions, development, and training.

Education

Portland State University

B.S. Computer Engineering, Physics (2008 – present)

Relevant courses: *Computer Science (I, II, III), Electric Circuits (I, II, III), Data Structures, Hardware Description Languages, Embedded Systems, Programming Systems, Microprocessors, Operating Systems*

B.A. Japanese (2004 – 2010)