TIM SIWULA

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http://itimmy.com/github | http://itimmy.com/linkedin | http://itimmy.com/resume.pdf

Education

University of San Francisco (USF), San Francisco, CA May 2017
Bachelor of Science in Computer Science
Courses: Algorithms, Parallel Programming, Software Development, Programming Languages, Linear Algebra & Probability

Skills

Languages: Fluent in English, Elementary in Mandarin
Programming Languages: Java, C, Javascript, Python, Objective-C, Bash, Git, MYSQL, HTML, CSS
OS Platforms: Unix/Linux, OS X, iOS
Protocols: SSH, TCP/IP, DNS, HTTP
Frameworks: Angular, Bootstrap, Express, AWS, Heroku

Experience

iOS Developer: SF Dev Shop, San Francisco, CA January 2016 - Present 2016
• Incrementally updated Objective-C iOS App
• Updated Storyboard's and debugged user interactions and animations

Science Web Programmer: Berkeley Labs, Berkeley, CA May 2014 - October 2014
• Ported linux OS & network file system to a new architecture
• Developed a front-end Web App with Javascript using Google App Engine

Individual Independent Projects

Bootstrapping AWS Autoscaling Script July 2016
• A terraform script that bootstrap's an autoscaling group on an empty AWS account
• Instances install nginx using a remote-exec provisioner and are accessible over an ELB

Universal Linux Install Script July 2016
• A bash script that will run on any linux distribution
• Installs the latest versions of docker, go, mysql and nginx and verify's the installation

Individual Academic Projects

Interactive Java Shell: Programming Languages August 2014 - December 2014
• Developed an interactive Java shell program that parses, compiles, loads and executes java code
• Each line is parsed and determined to be a declaration, statement, syntax error or nested character stream
• Valid Java code is compiled to a new class that inherits from the previous line and is dynamically loaded into the JVM
• Worked with the Reflection API, the JavaCompiler API and Classloader

Huffman File Compressor: Data Structures & Algorithms January 2015 - May 2015
• Developed a Java program that compresses and uncompresses files using Huffman coding
• Implemented a Huffman tree for all characters in the file and a lookup table for the codes of all characters in the file
• Reads files and calculates the frequencies of all characters

Inverted Index & Partial Search: Software Development August 2015 - December 2015
• Developed Java modules for a search engine featuring a inverted index data structure and partial search capability
• Parse text files and build a table for each where table is saved to disk