Weston Mizumoto

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Education

Stanford University
BS - Computer Science, Theory Track + Systems Track - June 2016 (expected), 3.6 CS GPA

Experience

Linc Global
Software Engineering Intern, Summer 2016
- Worked on the Data Analysis team
- Developed Machine Learning models for recommendation systems

Stanford University
Course Assistant to the Advanced Computer Security Certificate Program, Winter 2016 - Present
- Wrote exams questions and lesson material
- Helped develop the virtual learning online platform

Programming Assistant, Summer 2015
- Front and back end redesign of Themefinder.org.
- Developed new algorithms for faster searching.

Significant Coursework

Computer Organization and Systems (CS 107)	Principles of Computer Systems (CS 110)
Operating Systems (CS 140)	Compilers (CS 143)
Networking (CS 144)	Network and Computer Security (CS 155)
Design and Analysis of Algorithms (CS 161)	(Adv.) Data Structures (CS 166)
Modern Algorithm Toolbox (CS 168)	Program Analysis and Compiler Optimization (CS 243)
Bitcoin and Cryptocurrencies (CS 251)	Cryptography (CS 255)
Algorithmic Paradigms and Optimization (CS 261)	Randomized Algorithms (CS 265)

Skills

Programming Languages: C/C++, Objective C, Java, Ruby, x86 Assembly, Latex, Python
Software Development: Eclipse, X-Code, Git, Ruby on Rails

Projects

SundayContest.com:
- Weekly online Rubik's Cube Competition Ruby on Rails web app with 1200+ registered users.

COOL Compiler
- Created Lexer, Parser, Semantic Analyzer, and Code Generator for the COOL programming language

Java Compiler Optimizations
- Wrote compiler optimizations to speed up Java code produced by a naive Compiler.
- Performed optimizations to remove dead code, redundant code, and finding constant variables in the source code.

TCP, Router, and NAT Implementation
- Implemented stop-and-wait TCP, a static router, and a NAT supporting ICMP and TCP packets.

Pintos Operating System:
- Implemented User and Kernel threads, Virtual Memory, and the filesystem of the Pintos operating system.

Extra Curricular Interests

Rubik's Cube: Two-time National Champion, Third place at World Championships, President of Stanford Rubik's Cube Club.
Piano: Performed internationally in venues such as Carnegie Hall, and internationally in Austria, China, Germany, Estonia, Finland, and Russia.