

Calvin Lui

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EDUCATION

University of California at Berkeley | Berkeley, CA

College of Engineering

B.S. Electrical Engineering and Computer Science; May 2017

Relevant Coursework: current enrollment *

Structure and Interpretation of Computer Programs		Data Structures & Advanced Programming Methodology
Ideas in Computer Architecture, Machine Structures		Discrete Mathematics & Probability Theory
Productive Use of the Unix Environment		Efficient Algorithms and Intractable Problems*
Introduction to Artificial Intelligence*		Ruby on Rails DeCal*

RELEVANT EXPERIENCE / PROJECTS

Stock Quote Tracker

December 2014

- Developed program providing real-time updates to stock quotes and generates alerts based on user parameters
- Calls Yahoo Finance API to retrieve specific CSVs which are then parsed and displayed in a JFC/Swing GUI
- Utilizes Java threading to run updates/alerts for each quote independently and can support multiple windows simultaneously

HTML Spell Checker

January 2015

- Executable bulk spell checker for websites and local HTML files with the option of writing corrected content
- Incorporates Jsoup 1.8 dependency to access HTML content and extract all content from between HTML tags
- Identifies a list of incorrect words with Jazzy 0.5.2 spell check/English dictionary and gathers possible corrections before providing the option to write the corrected HTML code to a new file

Inspired, BluePrint Hackathon

March 2014

- Inspirational website that generates random quotes and audio from a preset selection
- Written with HTML/CSS, along with JavaScript features and a PHP contact form handler for user feedback

SKILLS

Languages: JAVA, PYTHON, C, MIPS, SCHEME, LOGIC, LATEX

Tools/Software: Unix (Shell Scripting), Git (github.com/clui951), Apache Spark Map/Reduce Framework, OpenMP multithreading, JFC/Swing GUI, Intel SSE Intrinsics, Vim, Irssi, Mutt

Web: Ruby on Rails*, HTML5, CSS ([clui951.github.io](https://github.com/clui951)), Beautiful Soup 4, Jsoup 1.8, Jade

EMPLOYMENT

Student Affairs – Information Technologies, Residential Computing Consultant

May 2014 - present

- Provide direct IT support and customer service in internet connection, router and network peripheral setups, malware detection/removal, security, general hardware configurations, and university software
- Worked with team as first point of contact for over 900 family residents, visiting scholars, graduate students, and administration in UC Berkeley's University Village with any technical issues related to computing

UC Berkeley Computer Science Department, Lab Assistant for CS61A

June 2014 – present

- Assisted in leading labs, office hours, discussions, review sessions, and an online discussion forum for Berkeley's introductory computer science course
- Discussed fundamental topics include abstraction, recursion, higher order functions, object-oriented programming, functional programming, declarative programming, and distributed computing

EXTRACURRICULARS

- Officer of Berkeley's Institute of Electrical and Electronics Engineers (IEEE)

Oct 2014 – present