William Wu

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Objective

I enjoy working with mobile and web application development, though I would love the opportunity to learn and contribute in other areas. I am looking for a Summer 2015 software engineering internship position.

Education

University of California – Berkeley — Berkeley, CA

Computer Science Major — Aug. '12 – Dec. '16

GPA: 3.64

Relevant Coursework:

CS61A: Program Interpretation and Structure, ***CS61B***: Data Structures, ***CS61C***: Computer and Machine Architecture [IP]
CS70: Discrete Mathematics and Probability, ***CS98***: Mac and iOS Development Decal, ***CS98***: Ruby on Rails Decal [IP]
CS188: Artificial Intelligence [IP], ***EE42***: Digital Electronics
Math1B: Calculus, ***Math54***: Linear Algebra and Differential Equations

Experience

UC Berkeley Computer Science Instructional Staff — Berkeley, CA

CS61B (Data Structures) Lab Assistant — Sept. '14 – Present

- worked with section instructor to facilitate the class in lab and office hours
- explained concepts to students as they completed assignments

Northrop Grumman Internship — El Segundo, CA

Engineering Aide — Feb. '12 – June '12

- processed data sets for the post production team for the F-5, T-38, and F-18 planes

Projects

https://github.com/williamwu2k12

- ***Secure-Browsing***: Google Chrome extension that uses Chrome APIs and CryptoJS (mainly AES and SHA256) to store, password protect, encrypt, view, and analyze link history, providing safer and enhanced functionality for both normal browsing and incognito mode
- ***Object-Communicate***: iPhone application that displays a list of items in a table and on a map (as pins), allowing a user to track the location of their possessions
- ***Flickr-Filterr***: iPhone application that accesses the Flickr API and the default Core Image filters to search for, display, apply filters to, and save flickr images
- ***CS188 – Search and Games***: Python implementation of search and decision making algorithms, such as DFS, BFS, iterative deepening, A-Star (with manhattan heuristics), minimax, and expectimax in a multi-agent Pacman game
- ***CS61C – Map Reduce on Spark and EC2***: MapReduce project that strongly solves sliding puzzles using Python framework Apache Spark (based on Hadoop) on Amazon Elastic Compute Cloud clusters

Skills

Programming Languages

- Python, Java, C, Objective-C
- JavaScript, HTML

Software and Tools

- Git, XCode, Vim, Eclipse, Sublime Text 2, Unix Shell
- Apache Spark MapReduce Framework, PycoSAT Logic Solver, Bootstrap Framework, Startup Design Framework, CryptoJS Library
- Autodesk Inventor Professional (computer aided design)