SAMUEL HWANG

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TECHNICAL STRENGTHS

Languages:	C, C++, C#, Python, MATLAB, HTML/CSS, Assembly
Software & Tools:	Git, Vim, Visual Studio, Xamarin Studio, MySQL, Atmel Studio, Photoshop CC, LaTeX

WORK EXPERIENCE

UCR Department of Sociology   2017
Software Developer   *Riverside, CA*
· Developing software in C++ with the Z-Tree platform to conduct behavioral experiments for UCR's Sociology Department
· Constructing a user-friendly interface to make experiments smooth and simple for all participants
· Coordinating with my team to study economic scenarios and create software to cater to these ideas

MA Labs   2014
Product Distributor   *City of Industry, CA*
· Assisted a distribution company to handle the processing and packaging of computer hardware
· Organized hardware products to ship and invoices for coworkers depending on item, quantity, and priority

PROJECTS

J.Crew Factory Sales Browser   https://github.com/samhwangg/J.Crew-Factory-Sales-Browser
Data Management
· Developed a program in Python that web-scrapes information about products on the J.Crew Factory website such as the name, original price, and sales price and inserts them into a table in MySQL
· The program also plots this information on Plot.ly using their API showing the user what items have the best deals

Unix Shell   https://github.com/samhwangg/rshell
Software Construction
· Imitated a custom Bash terminal with C++ to navigate through files and directories with the same commands such as ls, cd, etc
· Terminal could also handle more complex commands with parenthesis and boolean clauses in addition to rejecting incorrect inputs

8-Puzzle Solver   https://github.com/samhwangg/8-Puzzle-Solver
Artificial Intelligence
· Implemented A* Search in C++ to find the solution to an unsolved 8-puzzle inputted by the user.
· Compares the run-time of different heuristics used such as Uniform Cost heuristic and Manhattan Distance heuristic.

LCD Racer Game   https://github.com/samhwangg/LCD-Racer
Embedded Systems
· Programmed an ATMEGA1284 with an LCD screen, buttons, and LED lights to simulate a racing video game for two players.
· Player 1 avoids objects that scroll through the screen and Player 2 shoots projectiles to try and hit Player 1.

EXTRA-CURRICULAR

Theta Tau, Co-Ed Professional Engineering Fraternity   2015-Present
Corresponding Secretary (2016-2017) | Webmaster (2017-Present)   *Riverside, CA*
· Assisted Executive Board to maintain chapter relations with alumni and surrounding Theta Tau chapters
· Head coordinator of the Western Regional Conference hosted at UCR on October 2016
· Managed a committee of 15 people to plan an all-day event with a budget of over $10,000
· Maintaining our chapter's website as Webmaster: http://www.thetatauucr.com

Eagle Scout   2006 - 2014
Troop 730   *Diamond Bar, CA*
· Developed leadership skills as a Boy Scout for eight years and earned the rank of Eagle Scout

EDUCATION

University of California, Riverside
B.S. in Computer Science   *Expected Graduation: June 2018*
· Received Highlander's Excellence Scholarship to UCR