SAMUEL HWANG

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WORK EXPERIENCE

Applied Medical   Rancho Santa Margarita, CA
Software Development Intern   *June 2017 - Present*
· Maintaining and debugging software for the Voyant II medical device using PTC Integrity as version control
· Contributing to a robust compiler able to parse scripts and interpret functionalities such as if-else statements and file reading
· Creating a windows application wrapper in C++ to communicate with the SAP client in C# to automate the device programmer

MindTAPP (UCR Department of Psychology)   Riverside, CA
Game Programmer   *May 2017 - Present*
· Developing a flash memory game on Unity primarily for mobile to implement research on Implicit Followership Theory
· Designing responsive UI with features including the main menu and option configurations
· Creating a photo album that fetches and displays locally stored photos used for the game

UCR Department of Sociology   Riverside, CA
Software Developer   *April 2017 - June 2017*
· Developed software in C++ with the z-Tree platform to conduct social exchange experiments for research
· Constructed a responsive UI and created corresponding graphics to make experiments easy to understand for participants
· Programming background expedited the team's development process, creating four different experiments in 10 weeks

PROJECTS

J.Crew Factory Sales Browser   *https://github.com/samhwangg/J.Crew-Factory-Sales-Browser*
· Developed a program in Python that web-scrapes merchandise on the J. Crew website and inserts them into a table in MySQL
· The program also plots this information on Plot.ly using their API to show the user what items have the best deals

Unix Shell   *https://github.com/samhwangg/rshell*
· 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*
· 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*
· 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

LEADERSHIP

Theta Tau, Co-Ed Professional Engineering Fraternity   Riverside, CA
Corresponding Secretary (2016-2017) | Webmaster (2017-Present)   *2015-Present*
· 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
· Maintaining our chapter's website as Webmaster: http://www.thetatauucr.com

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

TECHNICAL STRENGTHS

Programming: C++ (Primary), Python, C, C#, SQL, HTML/CSS, Javascript
Other Software & Tools: Git, PTC Integrity, Visual Studio, iAR Embedded Workbench, Unity 5, Xcode, LaTeX

EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science   *Expected Graduation: March 2018*
· Received the Highlander's Excellence Scholarship to UCR