SAMUEL HWANG

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WORK EXPERIENCE

Applied Medical Resources   Rancho Santa Margarita, CA
Software Technician I   *October 2017 - Present*
· Invited back to help develop the Voyant medical device software and internal PC applications during the school year
· Assisting the development of a burn-in test fixture to stress test the medical device for potential faults

Software Development Intern   *June 2017 - September 2017*
· Maintained and debugged the Voyant medical device software using PTC Integrity as version control
· Expanded a script parsing compiler in C++ that allowed us to increase the control flow complexity with if-else statements
· Built a wrapper library in C++/CLI for cross-language communication to the SAP client in C# to store and call device scripts
· Created scripts using AutoIT to automate user inputs and interact with Windows GUI for automated overnight testing

UCR Department of Psychology   Riverside, CA
Research Software Developer   *May 2017 - Present*
· Designing the UI (main menu, option configurations, and photo album) for a mobile flash memory game on Unity
· Developing a RESTful API using Django and AWS to collect and analyze user data from the mobile games
· Expanding the website, https://mindtapp.com, to support log-in and survey features to store in our database system

UCR Department of Sociology   Riverside, CA
Research Software Developer   *April 2017 - June 2017*
· Developed social exchange experiments with varied complexity using C++ and the z-Tree application
· Constructed a responsive UI and created corresponding graphics to make experiments easy to understand
· Programming background expedited the team's development process by 400%, creating four different experiments in 10 weeks

PROJECTS

J.Crew 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
· Recreated the Unix Shell in C++ to emulate a normal terminal and used execvp to call commands
· Wrote the parsing function to interpret complex command combinations with boolean clauses and parentheses

LCD Racer Game
· Programmed an ATMEGA1284 to control peripherals and simulate a racing video game for up to two players
· Calculated points by time 'Player 1' lives and included a CPU or 'Player Two' option to shoot projectiles at 'Player One'

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 over 80 alumni and the 11 surrounding Theta Tau chapters
· Managed the Community Service Chair to help plan three events per quarter to serve our college and community
· Coordinated our chapter's Western Regional Conference with a budget of over $10,000 for speakers, catering, and activities
· Maintaining our chapter's website as Webmaster: http://www.thetatauucr.com

TECHNICAL SKILLS

Programming:	C++ (Primary), Python, C, C#, x86 Assembly, Shell, Batch, SQL, HTML/CSS, Javascript
Software & Tools:	Git, PTC Integrity, Visual Studio, SAP, iAR Embedded Workbench, Unity 5, Xcode, LaTeX
Spoken Language:	English (Native), Mandarin (Limited Working Proficiency)

EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science   *Expected Graduation: March 2018*
· Highlander's Excellence Scholarship & Dean's List