SAMUEL HWANG

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WORK EXPERIENCE

IBM Corp.   Tucson, AZ
Software Developer   *June 2018 - Present*
· Working with the DFSMS support team to analyze and debug clients' problems with the IBM mainframe

Applied Medical Resources   Rancho Santa Margarita, CA
Software Technician I   *October 2017 - December 2017*
· Worked in a highly regulated R&D workspace with SOP training, documentation updates, and code reviews for all team members
· Collaborated with members of the team to assist the development of their projects by developing new features and internal tools
· Created scripts using AutoIT and Batch to automate user inputs and interact with Windows GUI for build loading and script testing

Software Development Intern   *June 2017 - September 2017*
· Maintained and debugged the codebase using PTC Integrity as version control and Jenkins as a continuous integration platform
· Expanded a compiler in C++ to parse if-else statements to increase control flow complexity in custom test scripts
· Built a C++/CLI wrapper library for cross-language communication between C++ and C# to call the SAP API to store and retrieve device scripts, expedite production time, and eliminate human error

UCR Department of Psychology   Riverside, CA
Research Software Developer   *May 2017 - December 2017*
· Worked with a team of developers to create a mobile game app and website to implement research on Leadership Theory
· Acted as a technical liaison between the psychology graduate students and the development team to ensure clear communication
· Designed the UI (main menu, option configurations, and photo album) for a 'flash memory' card game in Unity

UCR Department of Sociology   Riverside, CA
Research Software Developer   *April 2017 - June 2017*
· Developed social exchange experiments with unique sets of users and rules for each simulation using C++ and the z-Tree application
· Constructed a responsive UI by dynamically calculating exchange results and designed graphics for users to visualize the experiment
· Created four different experiments in 10 weeks, expediting the team's development process by 400%

PROJECTS

Fridge.io
· Collaborated with a team of five to design and develop a Smart Fridge product by using a Raspberry Pi to emulate the fridge and an Android app to interact with the Raspberry Pi
· Utilized the SQLite database for quick, offline data fetching, storage, and transfer between the Raspberry Pi and the Android app
· Created complimentary features for user data such as product views, bluetooth sync, and expiration date notifications

8-Puzzle Solver
· Implemented a console application in C++ and utilized A* Search to find the solution to an unsolved 8-puzzle
· Compares the run-time of different heuristics used such as Uniform Cost and Manhattan Distance to identify the most optimal steps

TECHNICAL SKILLS

Programming:	(Primary) C++; (Familiar) Python, C, Java, SQL
Software & Tools:	Git, PTC Integrity, Visual Studio, Unity 5, Android Studio

EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science   *March 2018*
· *Relevant Coursework:* Software Engineering (Senior Design), Data Structures & Algorithms, Artificial Intelligence, Embedded Systems, Database Management Systems, Design and Architecture of Computer Systems, Design of Operating Systems, Concurrent Programming & Parallel Systems, Compiler Design, Technical Communication
· *Organizations:* Theta Tau - Co-Ed Professional Engineering Fraternity, ACM - Association for Computing Machinery