Jiamin(Carmen) He

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Summary

A master student in Computer Science, seeking a software engineering summer internship. Have rich experience in web development (React, Node.js, javascript) and mobile app development (Java).

Education

University of California San Diego (UCSD), CA — Jan 2019 (Expected)
Master of Science in Computer Science — GPA: 3.9/4.0

Tianjin University (TJU), China — June 2017
Bachelor of Engineering in Electrical and Computer Engineering — GPA: 3.87/4.0

Relevant Coursework: Interactive Design, Advanced Software Engineering, Recommendation System and Web Mining, User Interface Design, Design and Analysis of Algorithms, Principles and Practices of Assistive Technologies, Performance Engineering, Programming Languages, Cloud Computing

Skills

Programming: Java, Python, Android Development, C++, Ocaml, Prolog, Verilog, OpenCV
Softwares: MATLAB, LabVIEW, Altium Designer/Multisim, DSP/ARM coding
Web: HTML, CSS, Javascript, jQuery, PHP, React

Experience

RobeSafe Group, Spain — July - Sept 2017
Product Development and Innovation — Software Engineer Intern
AutoPanel: the Interactive Automotive Dashboard — **React**

- Proposed and developed a prototype of the interactive network visualization component for autonomous self-driving vehicles, which will be tested on real model in 2018
- Designed and developed multiple data visualization UI components using React framework
- Executed multiple tests for supporting the Robesafe feature on Human Machine Interface

Massachusetts Institute of Technology (MIT), MA — Jan - June 2017
Computer Science and Artificial Intelligence Lab (CSAIL) — Researcher
Cyber-Manufacturing and widely 3D-Printing — **WebGL, javascript, Node.js**

- Primary full stack developer and architect of CyberFab: a cloud platform for online 3D editing and rendering
- Investigated the automatic detection and assistance algorithm to help novice users, achieved more than 62.7% support in pilot participants
- Designed unified interfaces for different products to simplify user study process

McGill University, Canada — Aug - Dec 2016
Accessible Computing Technologies Lab, Information of Studies — Researcher
Performance Evaluation of Elder's Touch-Selections — **Android, Java, Python**

- Designed an Android tablet Application with audio feedback and invented instant performance evaluation loop in Fitts's Model, coded Leap Motion to detect movements in 3D coordinates
- Automated calculations of different measures and errors, achieved more than 42.5% improvement than past models
- Extracted user's implicit information from serialized data on shaking/hovering/slipping motion

Chip-Sea Technology CO., Ltd, China — Jan - Mar 2016
Product Testing and Development — Software Engineer Intern
Product Testing and Development — **C++, Verilog**

- Lead software testing and chip testing for 10+ projects, including on-chip debugging, mixed-signal test, function test and field service
- Built up modules to quickly locate the bug in chip testing based on Chip-Sea procedure framework, which helped improve 20% of performance
- Established automatic testing data analysis to expedite the process to 2s faster than before

Leadership & Activities

Volunteer ACM CHI'17 Conference on Human Factors in Computing Systems — 2017
President Student Union Association, Tianjin Univ. — 2015 - 2016