

Jiamin (Carmen) He

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SUMMARY

I'm a graduate student in Computer Science, looking for a full-time software engineering summer internship. Prefer full-stack or front-end programming. Have rich experience in web development (React, Node.js, javascript) and mobile app development (Java).

EDUCATION

University of California San Diego (UCSD), CA Sept 2017 - Dec 2018 (Expected)
Masters of Science in Computer Science

Tianjin University (TJU), China Sept 2013 - 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

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

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

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

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