

Yuanwen Tian

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EDUCATION

CARNEGIE MELLON UNIVERSITY, SILICON VALLEY (CMU-SV) Master of Science in Electrical and Computer Engineering GPA: 3.5/4.0	Mountain View, CA August 2019-December 2020
HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (HUST) Bachelor of Engineering in Electrical Engineering and Automation GPA: 3.9/4.0	Wuhan, China August 2015-July 2019

SKILLS

Languages: Java, JavaScript, TypeScript, Python, C/C++, HTML, CSS, XML, Markdown, LaTeX, SQL, MATLAB
Technologies: React.js, Redux, Node.js, Express.js, jQuery, Socket.IO, Bootstrap, MongoDB, MySQL, Google Test, JUnit, Jest
Platforms: Linux/Unix, Git/GitHub, Heroku, AWS, Google Cloud, Trello, CircleCI, Code Climate, Jira

WORK EXPERIENCE

Apple Inc., Claris <i>Software Engineering Intern</i> <ul style="list-style-type: none">Work in a Scrum team to deliver a Web Authoring product with React, TypeScript, HTML, CSS, Node.jsCollaborate with developers and QAs to support grouped combo-field in FileMaker Web AuthoringCollaborate with UI designers to implement standalone field and label placement in Web Authoring in compatible with the iOS and windows client platform.As a result, my internship projects lead to multiple existing bugs fixed, enable many potential customized features, and also are packed along in the first launch of company Web Authoring product.	Santa Clara, CA June-August 2020
Claris Intern Hackathon – COVID19 Bay Area Visualizer <i>Team Captain</i> <ul style="list-style-type: none">Lead a team of 2 interns in the company intern hackathon on COVID19 Bay Area Visualizer project, whole process includes project proposal, UI design, implementation, visualization and presentationUsing machine learning, JavaScript, React.js and FileMaker Platform with Addons to build an end-to-end product displaying pandemic spatial and temporal trend, demonstrating business value of FileMakerAs a result, we present to the whole department and our team win the top1 award among all interns	Santa Clara, CA July 2020

RESEARCH PROJECT

The Center for Vision, Cognition, Learning, and Autonomy, UCLA <i>CSST Research Assistant</i> <ul style="list-style-type: none">Collaborate with team of 4 research assistants on a robotic motion planning library, resulting in poster presentation to over 100 students and professorsBuilt model-based trajectory planning through generic nonlinear programming, using CMake, C++, Google Test while addressing the challenge of interacting with MuJoCo library and IPOPT solver	Los Angeles, CA July-November 2018
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COURSE PROJECTS

ESN: Emergency Social Network Web Application, CMU-SV <ul style="list-style-type: none">Work in a team of 4 developers utilizing agile-lean hybrid and TDD methods to build a live chatting appRealized user authentication, publicly and privately chatting, information searching and status sharing, utilizing Socket.io, Node.js, Express and MongoDB in the backendDesigned front-end UI using HTML, CSS, JavaScript and Bootstrap, awarded with best UI design badge	Mountain View, CA August-December 2019
Accelerating Word2vec using Map-Reduce, CMU-SV <ul style="list-style-type: none">AWS Spark is leveraged to accelerate the speed of training Word2vec compared to TensorFlow baselineFor our experiment result, AWS Spark based method performs much faster with an increase of 66.4% on Text8(100MB) and an increase of 71.0% on Urban Dictionary(551MB)	Mountain View, CA April-May 2020
Simple Distributed File System, CMU-SV <ul style="list-style-type: none">Implement a simple distributed file system with one naming server and multiple storage serversThe file system supports file CRUD, directory operations., lock files and replications	Mountain View, CA April-May 2020

PUBLICATION

- M. Chen, Yuanwen Tian, G. Fortino, J. Zhang, & I. Humar, “Cognitive internet of vehicles”, *Computer Communications*, 120, pp. 58-70. 2018. (Google Scholar Citation: 105)

AWARDS AND HONORS

Overall winner (top 1) award among all teams in Claris Intern Hackathon	July 2020
UCLA-CSST Scholarship, University of California, Los Angeles	July 2018
Outstanding Undergraduates (top 1%), Huazhong University of Science and Technology	December 2016
China National Scholarship, Ministry of Education of China & Ministry of Finance of China	October 2016