

# Yuanwen Tian

Mountain View, CA ♦ yuanwent@andrew.cmu.edu ♦ (650) 448-9437 ♦ linkedin.com/in/yuanwent ♦ [yuanwentian.github.io](https://yuanwentian.github.io)

## EDUCATION

<b>CARNEGIE MELLON UNIVERSITY, SILICON VALLEY (CMU-SV)</b> Master of Science in Electrical and Computer Engineering   GPA: 3.5/4.0	Mountain View, CA August 2019-December 2020
<b>HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (HUST)</b> 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

<b>Apple Inc., Claris</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>Work in a Scrum team to deliver a Web Authoring product with React, TypeScript, HTML, CSS, Node.js</li><li>Collaborate with developers and QAs to support grouped combo-field in FileMaker Web Authoring</li><li>Collaborate with UI designers to implement standalone field and label placement in Web Authoring in compatible with the iOS and windows client platform.</li><li>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.</li></ul>	Santa Clara, CA June-August 2020
<b>Claris Intern Hackathon – COVID19 Bay Area Visualizer</b> <i>Team Captain</i> <ul style="list-style-type: none"><li>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 presentation</li><li>Using 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 FileMaker</li><li>As a result, we present to the whole department and our team win the top1 award among all interns</li></ul>	Santa Clara, CA July 2020

## RESEARCH PROJECT

<b>The Center for Vision, Cognition, Learning, and Autonomy, UCLA</b> <i>CSST Research Assistant</i> <ul style="list-style-type: none"><li>Collaborate with team of 4 research assistants on a robotic motion planning library, resulting in poster presentation to over 100 students and professors</li><li>Built 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</li></ul>	Los Angeles, CA July-November 2018
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## COURSE PROJECTS

<b>ESN: Emergency Social Network Web Application, CMU-SV</b> <ul style="list-style-type: none"><li>Work in a team of 4 developers utilizing agile-lean hybrid and TDD methods to build a live chatting app</li><li>Realized user authentication, publicly and privately chatting, information searching and status sharing, utilizing Socket.io, Node.js, Express and MongoDB in the backend</li><li>Designed front-end UI using HTML, CSS, JavaScript and Bootstrap, awarded with best UI design badge</li></ul>	Mountain View, CA August-December 2019
<b>Accelerating Word2vec using Map-Reduce, CMU-SV</b> <ul style="list-style-type: none"><li>AWS Spark is leveraged to accelerate the speed of training Word2vec compared to TensorFlow baseline</li><li>For 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)</li></ul>	Mountain View, CA April-May 2020
<b>Simple Distributed File System, CMU-SV</b> <ul style="list-style-type: none"><li>Implement a simple distributed file system with one naming server and multiple storage servers</li><li>The file system supports file CRUD, directory operations., lock files and replications</li></ul>	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