

CHEN-WEI WENG

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EDUCATION

Boston University, College of Engineering <i>Master of Science in Electrical and Computer Engineering</i>	Boston, Massachusetts <i>Expected Dec. 2021</i>
National Taiwan University <i>Master of Science in Physics</i>	Taipei, Taiwan <i>Jan. 2016</i>
National Central University <i>Bachelor of Science in Physics</i>	Taoyuan, Taiwan <i>Jun. 2013</i>

Relevant Courses: Data Structures and Algorithms, Machine Learning, Design by Software, Product Design in ECE
Honors: College Student Research Scholarship-Academia Sinica, Research Fellowship-TSMC NTU Research Center

EXPERIENCE

Daily Travel Service Co., Ltd. <i>Software Engineer Intern</i>	Taipei, Taiwan <i>May. 2020 – Aug. 2020</i>
<ul style="list-style-type: none">Constructed a flight scheduler by using Node.js and APIs, resulting in a 30% improvement over the old process in collaboration with other employees.Built customer management system to store customers' travel history and personal information on MySQL	
Micron Technology <i>Product Engineer Lead</i>	Taichung, Taiwan <i>Dec. 2016 – Apr. 2020</i>
<ul style="list-style-type: none">Led a team of 5 engineers to conduct whole product flow from design, fabrication, assembly to test endImproved 3% test yield which saved over \$80000 per weekProgrammed a system for weekly monitoring yield loss pareto in Python and PandasDesigned new trim algorithms for next-generation sense amplifier resulted in an increase of 35% read accuracy	

PROJECTS

Handwritten Digit Recognizer [Tensorflow, MNIST]
<ul style="list-style-type: none">Developed a multilayer CNN for handwritten digit classification with over 98% accuracyUsed Tensorflow to create a softmax regression function for recognizing MNIST digits
Zoom Clone Application [WebRTC, React.js, Express.js, AWS]
<ul style="list-style-type: none">Built a peer-to-peer real-time video conference application with WebRTCDeployed the website on AWS EC2
Task Management System [JavaScript, Express.js, MongoDB, Node.js, Postman]
<ul style="list-style-type: none">Implemented the RESTful APIs for CRUD operations on MongoDB databaseUtilized Bootstrap to present front-end designValidated and debugged each functionality in the website using Postman
House Hunting Application [JavaScript, React.js, Express.js, MongoDB, Node.js, Scrapy]
<ul style="list-style-type: none">Crawled over 10,000 rows of data on well-known rental housing websites with ScrapyBuilt Schema and Model relationships between documents in MongoDB to store the price change of housesDeveloped an API with variable features to process the data from MongoDB using Express.js
Keeper Application [React.js, React Hook, Google OAuth, passport.js]
<ul style="list-style-type: none">Designed the web front-end by React.js and React HookEnabled users to sign in with their Google accounts by using Google OAuth and passport.js

SKILLS

Programming: Java, JavaScript, Python, C++, SQL, HTML, CSS, MATLAB
Frameworks: Express.js, React.js, Bootstrap, Tensorflow
Database and Tools: Git, MongoDB, MySQL, Node.js, Linux, mongoose, Postman, JMP