

Shuwei Wang

<https://resume.shuweiw.eu.org/>

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EDUCATION

University of Southern California | Los Angeles, CA

Jan 2022-Dec 2023

Master of Science, Electrical Engineering

GPA: 3.9 / 4.0

Shandong University | Shandong, China

Sep 2017-Jun 2021

Bachelor of Engineering, Technology & Instrument of Detection & Control

GPA: 82.8 / 100

PROJECTS

Browser Performance Testing of Web Assembly-based Machine Learning Models

Jan 2023-Now

- Built image recognition environments for three main browsers using Selenium, utilizing the ImageNet classification method and model.
- Conducted automated testing methods and test content, including using Dev Tools to compare performance data.
- Utilized Chrome's V8 protocol tool to compare performance differences on Web Assembly applications.

Business Search based on Google Cloud Platform

Sep 2022-Oct 2022

- Built a backend using Python and NodeJS with APIs from Yelp, Google, and IP and pass to the frontend.
- Accomplished frontend development using JS, HTML5, and Angular, including Typescript, to implement required functionalities and applied Android studio to build an App.
- Modeled an appointment reservation function and cached data to facilitate input writing and extraction.

Trojan Map, Los Angeles, CA

Jun 2022-Aug 2022

- Adapted OpenCV to visualize all the locations data and dynamically show the shortest paths result calculating by backtracking, 2-opt and 3-opt Heuristic algorithms on the map and wrote a document to save distance results.
- Realized functions such as tolerating small error for typo input and displaying classified locations by category.

Socket Programming for Digital Transactions, Los Angeles, CA

Feb 2022-Apr 2022

- Implemented a version of a blockchain service called Ali Chain based on C++.
- Established communication between main server and backend-server providing several modes of operations.
- Provided final report of each client including all the transactions and optimized UI to improve user experience.

INTERNSHIP EXPERIENCE

Supply chain Intern | Schneider Electric | Shanghai, China

Jun 2021-Dec 2021

- Collected and organized supply chain-related data and analyzed it to support decision-making, and wrote reports to demonstrate the actual problem-solving situation of the department.
- Assisted the recruitment project of new graduates, and conducted campus interviews and presentations.
- Collected logistics data, found distribution patterns of logistics usage, and predicted usage bottlenecks.

R&D Assistant | JENOPTIK | Shanghai, China

Jul 2020-Dec 2020

- Collaborated with R&D department members to identify requirements and improve measurement drawings, resulting in more accurate door hinges and measurements of CMM, etc.
- Conduct research to develop the conceptual design and platform for an optical lens system using for tests.
- Responsible for the SAP process requirements of two independent R&D departments.

Project management Intern | Crown Equipment | Suzhou, China

Jul 2019-Aug 2019

- Completed project ELECTRICAL SAFETY INSPECTION, arranging crucial person for each part with manager. Held pre meeting with supervisor, and conducted on-site inspection with warehouse staff finally.
- Carried out project SAFETY QUALIFICATION. Implemented qualifications for data indexing from over 200 datasets within two weeks with team of 5, and presented qualifications comparison to different type chemicals; produced 2 statistical reports and reported to manager.

TECHNICAL SKILLS

- Skills:** JavaScript / HTML5 / Python / C++ / Altium Designer / Mandarin(native)

ACTIVITIES

- Clubs:** USC Badminton Club, Dancing club