

# Shuwei Wang

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

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## EDUCATION

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**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

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**Browser Performance Testing of Web Assembly-based Machine Learning Models**

Jan 2023-Now

- Built environments for 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 and Android Studio**

Sep 2022-Oct 2022

- Built a backend using Python and NodeJS with APIs from Yelp, Google, and IP with specific dataset.
- Utilized Yelp API data to develop a feature that displays a list of merchants with their current status, enables reservation booking, generates reservation information lists, and allows for two methods of canceling reservations.
- Cached data to facilitate input writing and applied the same function in Android studio to build an App.

**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

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**Software Engineering Intern | Estlion Machinery | Shanghai, China**

Jun 2022-Aug 2022

- Developed real-time chat application using Vue3 framework, building back-end server to process chat data and implementing real-time communication using Node.js and Socket.IO library.
- Analyzed the feasibility of using static web page frameworks like Hugo in the current Vue.js architecture.
- Wrote descriptive comments to aid in understanding completed code, optimized and improved the interaction.

**Supply chain Intern | Schneider Electric | Shanghai, China**

Jul 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-Jan 2020

- Collaborated with 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

- Electrical Safety Inspection: Conducted inspection with warehouse staff in a week, and summarized the feedback.
- Safety Qualification: Implemented qualifications for data indexing from over 200 datasets within two weeks, produced 2 statistical reports and reported to manager.

## TECHNICAL SKILLS

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- **Skills:** JavaScript / HTML5 / Node.js / Angular / Vue.js / Python / C++ / Altium Designer / Mandarin(native)

## ACTIVITIES

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- **Clubs:** USC Badminton Club, Dancing club