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: 3.85 / 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-Jun 2023
- 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 Website based on Google Cloud Platform & 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   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

Software Engineering Intern | IpserLab | Remote, United States   Jun 2023-Now
- Revamped profile interface to enhance user interaction during data editing. Implemented various interactive elements and optimized button hover states for a seamless user experience.
- Created a dynamic product display page with paginated categories and detailed views and Carousel component to cycle through product images.

Software Engineering Intern | Estlion Machinery | Shanghai, China   Jun 2022-Aug 2022
- Developed real-time chat application using React framework, building back-end server to process chat data and implementing real-time communication using Node.js and Socket.IO library.
- Built front-end interfaces for a commercial platform, incorporating dynamic product filtering based on diverse attributes. Implemented shopping cart functionality, enabling seamless addition of products.
- Wrote descriptive comments to aid in understanding completed code, and optimized and improved the interaction.

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.

TECHNICAL SKILLS

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

ACTIVITIES

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