

Jacy Chen

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EDUCATION

University of Washington

Seattle, WA

Master of Science in Electrical & Computer Engineering(3.88/4)

Sept 2023 – Jun 2024

South China University of Technology

Guangdong, China

Bachelor of Science in Information Engineering(3.5/4)

Sept 2019 – Jun 2023

PROFESSIONAL EXPERIENCE

Software Engineer Intern | JavaScript, Node.js, React-Native, DynamoDB, AWS Amplify, NetUp

Dec 2023 – Present
Seattle, Washington

- Created a social app with **Node.js** and **React-Native**, handling user registrations and event management development.
- Designed the components with extension of library in **React-Native**, streamlining the app's front-end 98% of the design process and improving the rendering speed of the front-end page by 90%.
- Implemented **APIs** with **JavaScript** to manage events, enabling users to create, update, and delete events, ensuring data consistency and integrity, leading to a 25% increase in user satisfaction.
- Used **JavaScript** to develop filtering and sorting function for events, with a 20% reduction in search time.
- Use **DynamoDB** and **Amazon S3** to store the database of user information. Contribute to the **API** implementation and integration of **GraphQL** APIs by leveraging **AWS-Amplify**, resulting in a 40% increase in user engagement.
- Deployed **CI/CD** pipelines using **GitHub**, which reduced deployment time by 90%, ensuring faster and reliable application updates.

Software Developer - Capstone | Python, Django, React Native, Node.js, MongoDB
Novo Nordisk

Jan 2024 – Present
Seattle, Washington

- Developed a doctor-patient matching mobile application with **React Native**, enhancing user experience with **Navigation** and **React Hooks**, achieving a **30%** increase in user engagement.
- Implemented functionality to write user data to a **MongoDB** database and provided search and filter capabilities, reducing user search time by 40%.
- Created user management APIs using **Django**, enabling the addition, deletion, and retrieval of user data, resulting in a 50% improvement in data management efficiency.
- Established a **CI/CD** pipeline with **GitHub**, ensuring automated building and deployment of code, which reduced deployment times by 60% and increased overall development productivity by 35%.

Hardware Engineer Intern
Huawei

July 2022 – Sept 2022
Dongguan, China

- Developed diagnostic software tools for hardware testing, which led to identifying the early 90% of potential hardware failures, resulting in a 60% reduction in manual testing time and a significant increase in product lifecycle stability.
- Designed and programmed device drivers to improve the interface between the operating system and hardware peripherals. This work enhanced device communication efficiency by 80%.

PROJECTS

Food Map Web | JavaScript, CSS, HTML, Node.js, React.js, MongoDB, Express.js, Azure

Sept 2023 – Oct 2023

- Employed **HTML**, **CSS**, and **React** to design an engaging and intuitive user interface. Utilized **CSS** and **Bootstrap** to ensure the website with a responsiveness rate of 99.99% and adaptive to various screen sizes and devices.
- Developed **RESTful APIs** for a content management platform using **Node.js** and **Express.js**, implementing structured routes and controllers to efficiently handle HTTP requests. Launched multiple **API endpoints** to facilitate URL previews and post submissions.
- Implemented backend functionality with **Node.js** and **Express.js**, and integrated **MongoDB** for scalable data storage. Implemented **CRUD** features for managing restaurant entries, enhancing the user experience, and achieving a 97% customer satisfaction rate.
- Deployed a scalable web application using **Azure**. Configured custom domain integration, providing a seamless user experience.

SKILLS

- Programming Language:** Python, JavaScript, HTML, CSS, MySQL, C/C++, Matlab, R
- Frameworks & Libraries:** Node.js, React.js, React-Native, AWS, DynamoDB, GraphQL, ROS
- Tools & Technologies:** Git, Linux, Shell