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Education

University of California San Diego

M.S. in Computer Science	GPA: 3.75/4.0	Sep. 2022 - Jun. 2024
B.S. in Computer Science	GPA: 3.76/4.0	Sep. 2018 - Jun. 2022

Technical Skills

Programming Languages: HTML, CSS, JavaScript/TypeScript, Python
Frameworks & Libraries: React(Next.js), Vue.js, jQuery, Node.js, Express.js
Cloud Service: AWS, Firebase, Supabase
Database: MongoDb, PostgreSQL, Prisma

Individual Project

UUSphere | React(Next.js), Typescript, Python, SQL　　　　　　　　　　Mar. 2023 - Present
- Architected a full-stack web app, designed to streamline the class selection process for 35,000+ UCSD students.
- Developed features including classmates searching, and instant messaging that enhanced user engagement.
- Scraped class data from UCSD's official website with python, and structured the data into the SQL database.
- Reduced TTFB by 400% through optimizing data structures and rendering techniques.
- Conducted user research and engaged in the beta testing with 60 users, leading to usability improvements.

Experience

Tract SWE Intern | React, Javascript, Flask, AWS, OpenAI API　　　**Remote** Jun. 2023 - Sep. 2023
- Developed an AI chatbot for a web application that provides tailored outputs for 5,000+ early users by applying the RAG technique, which integrated the GPT model with the Mongodb database using LangChain.
- Deployed the Flask server with uWSGI and Nginx on AWS EC2, and set up https for data security.

Charoen Pokphand Group SWE Intern | Vue.js, Javascript, GraphQL　　**Remote** Jun. 2021 - Sep. 2021
- Implemented a responsive website that helps promote the company's mission to 20,000+ customers.
- Developed an online code editor, including dashboard and file management, which enables synchronous coding.

School Projects

Roommate Finder | Scrum, Next.js, Javascript, Firebase, Jest　　　　Jan. 2023 - Mar. 2023
- Led a team of 5 students to develop a website enabling users to discover roommates match their preferences.
- Mapped out a strategic roadmap and deconstructed milestones into granular tasks, and distributed responsibilities among team members, which streamlined project execution and encouraged ownership.
- Cultivated effective teamwork through holding daily stand-up meetings and weekly sprint reviews.
- Documented the requirements specification for the product during the development, serving as a knowledge reservoir for future team members, expediting project comprehension and aiding in ongoing maintenance.

Cloud-Based File Storage Server | Golang　　　　　　　　　　　　Jan. 2023 - Mar. 2023
- Developed a robust and scalable cloud-based file storage server based on the Raft Protocol utilizing Go.
- Guaranteed uninterrupted service availability and maintained data consistency, even with server failures.

School Activities

UCSD SMol Lab Research Assistant | Javascript, jQuery, Firebase　　**San Diego, CA** Sep. 2021 - Sep. 2022
- Publication: Lu Sun et al., *NewsGuesser: Using Curiosity to Reduce Selective Exposure*, CSCW, 2023.
- Developed a survey website with a data collection system to facilitate research on filter bubbles in news media.
- Gathered about 50 one-on-one surveys, instrumental in bolstering the empirical foundation of the research study.

UCSD Department of CSE Undergraduate Tutor | Haskell　　　　**San Diego, CA** Sep. 2021 - Dec. 2021
- Planned and designed exams for the "Programming Languages" course with Prof.Polikarpova.
- Provided guidance during office hours to 60 students, supporting their learning of Haskell and Lambda calculus.