Calvin Tran

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PROFESSIONAL EXPERIENCE

Full Stack Software Engineer | Enphase Energy **|**MySQL, Express, React, Node.js   June 2022 - Present

- Implemented server-side logic and RESTful APIs using Node.js, focusing on seamless data exchange between front-end and back-end systems. Prioritized performance, scalability, and reliability optimization through efficient coding, caching, and load balancing.
- Conducted thorough code reviews for a cross-functional team, identifying and rectifying critical issues while maintaining code quality standards, resulting in a 20% reduction in post-release bugs.
- Managed the roof edge collision project, utilizing Paper.js and Three.js, to enhance collision detection in a 3D rendering software, resulting in a notable 43% reduction in bug count through advanced algorithms, rigorous testing, and meticulous debugging.
- Spearheaded a team of 7 engineers in orchestrating the responsibility for maintaining and updating documentation as the codebase evolved, ensuring documentation remained pertinent and beneficial for developers and product owners.

Full Stack Software Engineer | UCLA ACM: Teach for LA **|**MySQL, Express, React, Node.js   September 2020 - June 2022

- Developed a comprehensive full-stack approach, specializing in front-end development using React and TypeScript. Leveraged React Query to efficiently manage data fetching, caching, and real-time synchronization, improving the responsiveness of user interfaces. Resulting in a noteworthy 50% surge in user engagement, elevating the experience for Los Angeles Unified School District (LAUSD) website visitors.
- Mastered SQL database operations, adeptly crafting efficient SQL queries for seamless data management and manipulation, ensuring optimal performance and data integrity.

Back End Software Engineer |*UCLA NOVA* - Tech for Good   September 2020 - January 2021

- Executed thorough testing of a Node.js RESTful API using Mocha and Chai, leading to a significant 30% reduction in software bugs while ensuring robust functionality and adherence to API specifications.
- Exhibited strong leadership and proficiency in Agile software development methodologies while guiding a dynamic software engineering team of 12 members, facilitating efficient project management, promoting seamless communication, and ensuring on-time delivery of high-quality software solutions.

PROJECT EXPERIENCE

Restaurant Swipe |MongoDB, Express, React, Node.js   June 2023

LaHacks 2022

- Integrated Yelp Fusion API and developed it with React Tinder Cards to create a dynamic and user-friendly full-stack application for restaurant discovery, enhancing user experience by simplifying the decision-making process through engaging swiping interactions.

ManPulance |PostgreSQL, Express, React, Node.js

*Hack-A-Thon: WinHacks 2022 | **Overall Best***   March 2022

- Led a team of 4 engineers to create a React and Node.js/Express web application, leveraging Google Maps API to help users find the nearest Hospitals in New Delhi. Incorporated hospital ratings and patient capacity for informed decision-making during emergencies.
- Integrated Firebase for seamless authentication, enabling secure customer signup and login functionality within the project, ensuring robust data protection and customer management.

Penguin Species Classification Program |Python, Machine Learning   March 2021 - June 2021

- Collaborated in designing a Python-based Penguin species classification system with a 300+ penguin database. Employed 2-D machine learning models, including decision trees, SVM, and decision regions, to evaluate the accuracy of physical traits in species classification.

EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science in Math for Teaching

- Relevant Coursework: Data Structures and Algorithms, Machine learning with Python, Programming in C++, Numerical Methods

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C/C++, Python, Java
Technical Skills: Node.js, React, React Query, Paper.js, Three.js, Angular, Express, Vue/Angular, SASS, Redux, MySQL, Mocha, Webpack
Developer Tools: Git, VS Code, CircleCI, AWS, GitHub