

Calvin Tran

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PROFESSIONAL EXPERIENCE

Full Stack Software Engineer | *Enphase Energy* | MySQL, Express, React, Node.js, TypeScript June 2022 - September 2023

- Developed, debugged, and maintained React and TypeScript code in a corporate setting, enhancing data visualization and user engagement in a CRM dashboard, leading to a 15% boost in satisfaction and productivity.
- Implemented Node.js server-side logic and RESTful APIs to optimize data exchange, prioritize performance, scalability, and reliability through efficient coding, caching, and load balancing.
- Efficiently utilized AWS cloud services and infrastructure to deploy, manage, and optimize scalable solutions, resulting in a 30% improvement in application performance and resource utilization.
- Utilized jQuery-driven AJAX requests to seamlessly optimize data retrieval and real-time updates, resulting in a significant 40% reduction in server load, all while markedly enhancing the overall responsiveness of the application.
- Engineered clean, rigorously tested, and well-documented code to ensure transparency and facilitate maintenance for complex projects. Actively participated in code reviews, resulting in a significant 25% reduction in post-deployment issues.
- Executed rigorous unit testing of a Node.js-based API using Mocha, covering critical endpoints and functionality, ensuring reliability. This effort led to a 25% reduction in API-related defects and enhanced the overall quality of the application.
- Applied Singleton, MVC, and Event-Driven architecture for streamlined software design, boosting modularity and scalability.

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

- Developed a full-stack application with a focus on React and TypeScript, optimizing data handling and real-time synchronization using React Query to boost user engagement by 50% and enhance the LAUSD website experience.
- Designed and normalized MySQL database schemas, reducing data redundancy by 20% and improving data integrity, leading to more accurate reporting and analysis.

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

- Enhanced maintainability of Jest test suites by refactoring and optimizing existing tests, resulting in a 30% reduction in test suite execution time, thereby accelerating the development cycle.
- Implemented Git-based source code management in conjunction with Jenkins CI/CD pipelines, significantly reducing deployment times and enhancing code quality through automated testing and validation.

PROJECT EXPERIENCE

Restaurant Swipe | Express, React, Node.js, Material UI June 2023
Out In Tech

- Developed a dynamic restaurant discovery app with React Tinder Cards and Yelp Fusion API, utilizing Material UI to create a responsive user interface, streamlining the decision-making process through swiping interactions for a superior user experience.

ManPulance | MongoDB, Express, React, Node.js March 2022
Hack-A-Thon: WinHacks 2022 | Overall Best

- 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.
- Managed Git repositories and employed collaborative development tools, such as Notion and Slack, to enhance team workflows, ensuring code integrity and facilitating efficient version control practices.

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

- Engineered a Python-based Penguin species classification system utilizing a 300+ penguin database, applying 2-D machine learning models like decision trees, SVM, and decision regions to assess the accuracy of physical traits in species classification.

EDUCATION

University of California, Los Angeles (UCLA)
Bachelor of Science in Math for Teaching | GPA: 3.8

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

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++

Technical Skills: React, Node.js, Express, MongoDB, AWS, Git, Jenkins, Jest, Redux, CSS, HTML5, Angular, Bootstrap, PostgreSQL, MySQL, SASS, Mocha, Material UI, jQuery, Machine Learning, Paper.js, Three.js, React Query