Tim Engle

Mountain View, CA | LinkedIn | GitHub | Website

Software Engineer

Full Stack Engineer with a strong focus on backend development. Brings 2 years of experience in designing scalable, high-performance REST APIs and efficient data modeling. Key contributions include optimizing backend processes for Litter.AI and Leetcode Tracker, where responsibilities involved streamlining authentication and modeling data for performance and functionality. Foundation in TypeScript, Node/Express, with growing proficiency in DevOps, Go, and Python. Nearly a decade in the cycling industry has honed my communication and problem-solving skills. Eager to join a team for a long-term commitment, focusing on backend development.

Technical Skills

Front-End - JavaScript (ES5 and ES6), TypeScript, Next.js, React, HTML5, CSS3, Tailwind CSS, Redux
Back-End - Node.js, Express, Go, GraphQL, PostgreSQL, MongoDB, MySQL, RESTful API, Docker
Testing/Deployment - Jest, Mocha, Chai, AWS: EC2 / RDS / Test Driven Development (TDD)
Developer Tools - Vim, Git, npm, Webpack, Babel, Agile Methodology, Scrum

Professional Experience

Software Engineer - Open Source San Jose   Sep '23 - Present
- Streamlined waste management processes by leveraging AI technology to implement an **API for waste sorting & user engagement through gamification**
- Reduced front end development time through **extensive API documentation**
- Optimized user data management by implementing a mixed data modeling approach in MongoDB, **using data modeling techniques**

Software Application Development Experience

Software Engineer - Leetcode Tracker - *Repo* - Node, Express, MongoDB
Community based app for tracking, comparing, and getting recommended questions for review
- Engineered a seamless integration between a command-line interface frontend and a high-performance Node.js REST API, enhancing user interaction and system efficiency
- Streamlined account security & verification process using email for **account authentication** & updating.
- Complex data interactions across 'users', 'questions', 'answers', and 'groups' in MongoDB, enhancing user experience and data integrity through referenced relationships and role-based access control
- Improved code quality by implementing **automated testing with GitHub Actions**, resulting in efficient bug identification & reduced manual testing effort

Software Engineer - LitterSort.AI - *Repo* - Node, Express, React, MongoDb
Web application to help cities instruct citizens of where to dispose of trash.
- Created a scalable Node.js API for a civic tech project, integrating **AI for waste management efficiency** & collaborating with Product Management on user engagement features
- Improved server response time by over **100%** by optimizing server performance through **MongoDB data aggregation**, reducing CPU usage, & implementing automated testing & load/stress testing using **k6**

Front End Engineer - Atelier - *Repo* - React, React Testing Library
Fashion ecommerce product page
- Managed app wide state by utilizing API requests through front end component interaction
- Boosted accessibility score from 75% to **98%** by advocating for semantic HTML within team
- Resolved front-end conflicts, increasing efficiency by 20% & streamlining development process using Agile, ESLint, software testing principles, & streamlined API requests & CSS selectors

Education

Hack Reactor | Advanced Software Engineering Certificate   2023