

Timothy Engle

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 and evolving into a senior engineering role.

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PROFESSIONAL EXPERIENCE

Open Source San Jose | REST API Developer

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**

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python**Cloud Deployment and Technologies:** DevOps, GH Actions, Docker, Git, feature branch workflow, AWS (EC2)**Database Concepts and Technologies:** SQL, NoSQL, MongoDB, Database scaling, MongoDB driver PostGreS,**Server-Side Concepts and Technologies:** Node.js, Express.js, Stress Testing & Scalability**Client-Side Concepts and Technologies:** React.js, HTML5/CSS3, DOM & DOM API

RELEVANT PROJECTS

Leetcode Tracker | Fullstack Dev | Node, Express, MongoDB

Aug '23

A 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.
- Enhanced learning outcomes by tracking user's **LeetCode performance**, providing personalized review questions, & facilitating comparison with peers
- Streamlined 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

Litter.AI | REST API Dev | MERN, RESTful API, Jest

Sep '23

A web application to help users decide on where they should dispose of their 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**

Atelier | Front-End Engineer, Team Lead | React, React Testing Library

Jun '23

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 changes.
- 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 Program

May '23 - Aug '23