Emilia Yoffie Software Engineer

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TECHNICAL SKILLS

JavaScript, TypeScript, HTML5, CSS/Sass, React, Redux, Node, Express, Deno, PostgreSQL, MongoDB - Mongoose, Docker, Git/GitHub, GitHub Actions, OAuth 2.0, webpack, Vite, Jest, Cypress, React Testing Library

EXPERIENCE

Software Engineer & Consultant *(contract)*, **CS Engineering** — *Feb 2023 - Present*
Software Engineer *(contract)* — *June - Oct 2022*

- Maintained ed-tech learning platform with 200k+ users, internal tooling, and public site, employing Docker containers to facilitate consistent dev environments, streamline workflows, and enhance deployment processes
- Overhauled events management dashboard in React with targeted UI improvements, such as intuitive navigation and responsive design, to create a more fluid experience for end users to manage remote and in-person events
- Integrated data models and a query wrapper to restructure the existing customized ORM layer, reducing code complexity by 30% and resulting in a more maintainable and extensible service abstraction for the SQL database
- Leveraged Cypress to write end-to-end tests in order to validate user-driven behavior and provide quality assurance across the application's UI, while incorporating new features and improving testing efficiency by 40%
- Implemented test-driven development with Jest for testing Express controllers in the CI/CD pipeline, enhancing code quality by an estimated 2.5 - 4.2 times and achieving 80% block coverage, ensuring intended functionality
- Constructed JavaScript challenges for Frontend Masters' UI Hard Parts, guiding participants to improve their understanding of UI development principles such as DOM manipulation, data binding, the virtual DOM, and hooks
- Carried out comprehensive knowledge transfers through Lunch & Learn sessions, focusing on the shift-left mentality of developing holistic testing suites, increasing quality engineering and deployment confidence
- Mentored teams of junior engineers through the complete lifecycle of full-stack open-source products, facilitating use of Agile/Scrum methodology to guarantee proper workflow, team compatibility, and effective product launch

Software Engineer *(open source)*, **dangoDB** (*Developed under tech accelerator OSLabs*) — *Apr 2022 - July 2022*

- Engineered an object document mapper (ODM) library for MongoDB in Deno to enforce database schema validation and optimize consistency and efficiency in an effort to mimic the role Mongoose plays in the Node runtime
- Developed an abstraction layer for MongoDB queries to enhance schema validation and complex data types, while leveraging facade and factory design patterns to simplify object instantiation and schema generation
- Integrated React Hooks to render reusable stateful components in a web-based graphical user interface (GUI), enabling automatic user schema generation, facilitating code adoption, and streamlining development processes

Partner & Manager, Berkshire Hemp — *Apr 2018 - Apr 2022*

- Founded an agriculture start-up focused on creating accessible industrial hemp and cbd products made with simple, certified organic ingredients through a proprietary, chemical-free extraction process
- Led 20+ personnel across 60+ acres of cultivation from sowing to harvest, while overseeing team onboarding and providing technical guidance and training in equipment handling, safety protocol, and quality control best practices
- Managed end-to-end supply chain activities for high-value inventory, ensuring seamless manufacturing and 100% product compliance with consumer product safety standards and internal performance standards

SELECTED PROJECTS

mixETL - *Reverse ETL tool for Google Sheets & Mixpanel*

- Constructed transformation, digestion, and mapping logic for streamlining the transfer of processed data from Google Sheets to Mixpanel, enhancing data integrity and enabling real-time analytics for business insights
- Harnessed TypeScript's static typing system to enforce strict schema and type validation while also ensuring future scalability, reducing runtime errors, and improving cross-team communication and code integration

SweetCode - *Web app for creating custom study guides*

- Configured GitHub OAuth 2.0 and cookie-based session management, enhancing user security and experience, and resulting in a 20% reduction in bounce rate by ensuring secure and seamless credential transmission
- Utilized Node.js with Express to architect a modular, high-performance RESTful application, harnessing the middleware design pattern to manage HTTP and API requests to multiple endpoints

EDUCATION

SUNY Cobleskill, Bachelor of Technology — *2017*
Codesmith, Advanced Residency for Software Engineering — *2022*

INTERESTS

Unapologetic dog person · Addicted to historical period dramas · Avid cook & gardener · World traveler & scuba diver