

Emilia Yoffie

Full-stack engineer passionate about the growth mindset, collaboration, and building unique & accessible digital experiences.

Experience

Software Engineer & Consultant, **CS Engineering** (Contract) April 2023 - Present

Software Engineer (Contract) June - Oct 2022, Feb - April 2023

- Maintained ed-tech learning platform with 165k+ users, internal tooling, and public site, employing Docker containers to facilitate consistent development environments, streamline workflows, and enhance code integration and deployment processes.
- Overhauled central Events Management Dashboard in React, moving from class-based JavaScript to functional TypeScript in order to promote type-safe development and create a fluid experience for end users to manage remote and in-person events.
- Revamped internal Querying Aggregation Layer by integrating data models and a query wrapper to restructure the existing customized ORM layer, resulting in a more performant, maintainable, and extensible service abstraction for the SQL database.
- Implemented TDD (test driven development) by utilizing Jest's assertion and mock testing library to write unit tests for Express controllers in the CI/CD pipeline, ensuring intended functionality and preventing unintended side effects.
- Leveraged Cypress to develop and refactor end-to-end tests in order to validate user-driven behavior and provide quality assurance across the application's user interface, while incorporating new features and improving testing efficiency.
- Migrated date formatting to date-fns from legacy usage of Moment.js for representing date/time in a React and Node/Express full stack application, improving readability and optimizing the codebase by utilizing the latest industry standard practices.
- Constructed JavaScript challenges for Frontend Masters' *UI Hard Parts*, guiding participants in gaining a comprehensive understanding of UI development principles such as DOM manipulation, data binding, the virtual DOM, and hooks.
- Carried out comprehensive knowledge transfers, in both written documentation and informal Lunch & Learn sessions, focusing on the shift-left mentality of developing holistic testing suites, increasing quality engineering and deployment confidence.
- Mentored engineering teams through the complete lifecycle of full-stack open-source products, facilitating the use of Agile/Scrum methodology to guarantee proper workflow, team dynamic compatibility, and effective product launch.

Partner & Manager, **Berkshire Hemp** April 2018 - April 2022

- Led 20+ personnel across 60+ acres of industrial hemp 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, product compliance, and client satisfaction, leading to optimized company-wide financial outcomes and a loyal consumer base.

Selected Projects

dangoDB | MongoDB ODM Library for Deno | Developed under tech accelerator [OSLabs](#)

- Developed an abstraction layer for MongoDB queries in Deno, enhancing schema validation and complex data types, and leveraged facade and factory design patterns to simplify object instantiation and schema generation, improving the UX.
- Integrated React Hooks to dynamically render reusable stateful components in a web-based graphical user interface (GUI), enabling automatic user schema generation, facilitating code adoption, and streamlining development processes.

mixETL | Reverse ETL tool that processes data from Google Sheets & pushes it into Mixpanel

- Developed data transformation, digestion, and mapping logic, elevating efficiency and accuracy in processing Google Sheets data for use in Mixpanel, and resulting in streamlined workflows and enhanced data integrity.
- Harnessed TypeScript's static typing system to enforce strict type validation while providing future scalability, reducing runtime errors and improving cross-team communication and code integration.

SweetCode | Web app for creating custom programming fundamentals study guides

- Implemented authentication using Github OAuth 2.0 and cookies, reducing bounce rate and ensuring the protection of user credentials, allowing for a smooth and secure login experience for users.
- Developed a modularized backend system by utilizing the middleware design pattern with Node/Express, enabling efficient handling of HTTP and API requests across multiple endpoints.

Contact

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Skills

Programming Languages

JavaScript (ES6+), TypeScript, HTML, CSS, Sass

Libraries & Frameworks

React, Node, Express, Deno, Redux, Gatsby

Databases

SQL (PostgreSQL)
NoSQL (MongoDB - Mongoose)

Tools, Testing, & Deployment

Git, Github, Docker, Webpack, OAuth 2.0, Cron, Jest, Cypress, Supertest, CI/CD (GitHub Actions)

Education

SUNY Cobleskill

Bachelor of Technology,
Plant Science, May 2017

Codesmith

Advanced Residency for
Software Engineers, June 2022

Interests

Unapologetic dog person.
Addicted to historical period dramas. Passionate about cooking & gardening. New Trekkie 🖐️
World traveler & Scuba Diver.