

# Emilia Yoffie

Full-stack engineer passionate about building meaningful software solutions

## Experience

Software Engineering Consultant, **CS Engineering** (Contract) April 2023 - Present  
Software Engineer (Contract) June - Oct 2022, Feb - April 2023

- Maintained internal tools and public site with 165k+ annual users, employing Docker containers to facilitate consistent development environments, streamline workflows, and enhance code integration and deployment processes.
- 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 unnecessary side effects.
- Leveraged Cypress to develop and refactor end-to-end tests, validating user-driven behavior and quality assurance across the application's UI, while upgrading v7 to v12 to incorporate new features and improve testing efficiency.
- Integrated SQL data models and a query wrapper in various middleware to offer an ORM-like solution for database queries, improving developer experience around readability, maintainability, and testability.
- 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, 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 code reviews and technical training in JavaScript, focusing on Node/Express, React, Redux, NoSQL/SQL databases, and TDD to foster technical growth and promote engineering best practices.
- Conducted technical interviews for prospective engineers to evaluate knowledge of JavaScript, to assess analytical problem solving, technical communication, and debugging skills, and to gauge overall company cultural fit.
- 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, **Berkshire Hemp** April 2018 - April 2022

- Managed end-to-end supply chain activities for high-value inventory, ensuring seamless manufacturing, client satisfaction, and product compliance while overseeing team onboarding and company-wide financial outcomes.

## Selected Projects

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

- Abstracted MongoDB queries from base MongoDB drivers for Deno and added an additional layer of schema validation for nested and complex data types, employing facade and factory design patterns to effectively instantiate objects, generate schemas, and minimize unnecessary UX complexity.
- Integrated React Hooks to dynamically render reusable stateful components in web-based graphical user interface (GUI), enabling automatic user schema generation for quick and easy code adoption.

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

- Constructed logic for transforming, mapping, and digesting data from Google Sheets and sending the clean and processed data to Mixpanel.
- 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 programming fundamentals study guides

- Configured Github OAuth 2.0 and cookies to authenticate and persist user session state and minimize bounce rate by securely transmitting user credentials.
- Architected modularized backend logic through the middleware design pattern using Node/Express to manage HTTP and API requests to 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, Github Actions

## Education

### SUNY Cobleskill

B.Tech, Plant Science, May 2017

### Codesmith

Software Engineering, June 2022

## Interests

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