

Emily Olszewski

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Nuclear Power Leader turned Software Engineer. Passionate about solving complex problems, learning new technologies and contributing to high functioning teams. Multiple years of experience in JavaScript, Ruby, and PostgreSQL.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer - Anza Renewables

02/2024 – present

- Built and maintained features across our user-facing web app (**React**, **TypeScript**, **Tailwind**) and backend APIs (**Node.js**, **Express**, **PostgreSQL**).
- Contributed to frontend rewrite initiative that improved performance, maintainability, and user experience; migrated features, refactored components, and made key design decisions. Supported the company's transition to a SaaS model by delivering a more polished and scalable UI.
- Revamped broken analytics processes (**GTM**, **GA4**), collaborating with product and data teams to implement a new framework and secure leadership buy-in. Presented improvements to the team and assumed ownership of analytics operations, enabling the company to make data-driven decisions through a now-functional analytics pipeline.
- Partnered with our product team to scope improvements to key user features; led a small team of developers to deliver improvements on time, resulting in an enhanced customer experience.
- Implemented standardized middleware patterns for API error handling and permissions, enabling the team to track errors and effectively utilize logs for debugging reliably.

Co-Creator, Software Engineer - SmoothSail

08/2023 – 12/2023

<https://smooth-sail.github.io/> 🌐

A self-hosted feature flagging solution with user-targeting capabilities for testing in production.

- Built a sophisticated Software Development Kit (SDK) to streamline flag evaluation logic, simplifying the complexity and ensuring a seamless, persistent connection to SmoothSail
- Developed backend application to maintain connections with server-side SDKs therefore reducing the responsibilities and load on our REST API
- Identified and corrected a critical bug that prevented our architecture from horizontally scaling
- Implemented engineering strategies to simplify the complexity of the SDK, resulting in a lightweight and user-friendly solution
- Implemented functionality in the SDK for minimizing the impact of network unreliability leading to increased reliability for users
- Produced load-testing protocol and performed load-testing to verify system-wide delivery of data beyond anticipated usage, identified performance bottleneck

Software Engineer - Self Employed

09/2022 – 12/2023

Developed open-source software, some highlighted projects include:

- CatchPost: RequestBin-like tool for receiving and inspecting webhooks (**React**, **Express**, **MongoDB**, **Node.js**)
- Ebay Profit Project: Full stack application for tracking inventory, profit for eBay sales, deployed on Fly.io (**Ruby**, **Sinatra**, **ERB**, **PostgreSQL**)

Program Analyst - Systems Planning and Analysis, Inc.

01/2021 – 09/2022

- Project lead for DoD Program Protection efforts
- Led a working group to update systems engineering processes involving cybersecurity, logistics, and engineering stakeholders

Nuclear Engineer - United States Navy

05/2015 – 12/2020

- Led a team of 25 nuclear-trained Sailors in the safe operation of a 550MW nuclear reactor and all associated systems
- Managed a division of 35 nuclear-trained Electricians through the ship's most rigorous annual nuclear engineering inspection resulting in an overall readiness score above the fleet's average

EDUCATION

BS Mechanical Engineering, University of South Carolina

05/2015