

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 a small team effort to prove the feasibility of frontend rewrite and following rewrite - improved performance, maintainability, and user experience. Worked on migrating features, refactoring components, and ensuring a smooth transition to the new architecture.
- Revamped analytics (**GTM, GA4**) processes to drive data-driven decision-making: Identified a failing analytics process, collaborated cross-functionally with product and data teams to implement a new framework, secured buy-in from senior leadership, presented improvements to the team, and now own all analytics operations.
- Coordinated with the product team to scope and define improvements for commonly used user features. Led a small team to execute those user features leading to an on-time delivery for user-facing features.
- Implemented patterns in our APIs for consistent error handling and permissions in our middleware.

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