

# Emily Olszewski

✉ eolszewski14@gmail.com    🔗 <https://emilyolszewski.dev/>    🌐 emilyoski    🌐 emily-olszewski

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**)
- Developed and maintained the analysis for renewable energy storage systems, evaluating performance and cost data to identify the most cost-efficient solutions for utility-scale projects (**Python**)
- 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

### 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 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 and configuration management processes involving cybersecurity, logistics, and engineering stakeholders
- Supported DoD clients in the development of the D5LE2 missile; managed statutory acquisition documents, drafted working group charters, drafted and revised policy documents, and concept and strategy development

### Nuclear Engineer - United States Navy

05/2017 – 12/2020

- Led a team of 25 nuclear-trained Sailors in the safe operation of a nuclear propulsion plant during rigorous certifications and a overseas combat deployment
- Managed a division of 35 nuclear-trained Electricians through the ship's annual nuclear engineering inspection resulting in an overall readiness score above the fleet's average
- Program Manager for 4160V electrical distribution system, electrical maintenance and safety essential to nuclear plant sustainability at sea
- Developed and trained 450+ Sailors on nuclear topics ranging from chemistry controls to reactor plant operations

### Gunnery Officer, Explosive Safety Program Manager - United States Navy

05/2015 – 05/2017

- Led 22 Sailors in the planning and execution of critical maintenance on \$1B+ weapon systems and equipment essential to the ship's mission.
- Improved Explosive Safety program efficiency by 65% in six months.

## EDUCATION

---

Nuclear Engineering, United States Navy Nuclear Power School (Top 10%)

05/2018

BS Mechanical Engineering, University of South Carolina

05/2015