




Emily Olszewski

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PROFESSIONAL EXPERIENCE

Co-Creator, Software Engineer - SmoothSail

08/2023 –

<https://smooth-sail.github.io/> 

12/2023

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

- Built software development kit (SDK) to abstract away complexity of flag evaluation logic and establishing a 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
- Made engineering decisions to simplify the complexity of the SDK leading to a lightweight SDK for users
- 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 of SmoothSail's architecture and developed a plan to address when deemed necessary
- Co-authored SmoothSail's technical case study documenting design decisions: <https://smooth-sail.github.io/#/case-study>

Software Engineer - Self Employed

09/2022 –

Developed open-source software, some highlighted projects include:

12/2023

- **CatchPost:** RequestBin-like tool for receiving and inspecting webhooks (*React, Express, MongoDB, NodeJS*)
- **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 –

- 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

09/2022

Nuclear Engineer - United States Navy

05/2015 –

- 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
- Responsible for 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

12/2020

SKILLS

Backend

Node.js, Express, Ruby, Go, Sinatra, PostgreSQL, MongoDB, SQL, REST APIs

Frontend

JavaScript, Typescript, React/Redux, Handlebars, Tailwind, jQuery, HTML/CSS

Other

Git/GitHub, Bash, HTTP, Server-Sent Events, Digital Ocean, OOP, Nginx, Postman, Ngrok, VPCs

EDUCATION

BS Mechanical Engineering, University of South Carolina

05/2015