

Emily Olszewski

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PROFESSIONAL EXPERIENCE

Software Engineer - SmoothSail, <https://smooth-sail.github.io/>

08/2023 –
12/2023

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

- Developed Express application for establishing and maintaining persistent connections with server-side SDKs. Express application reduced the responsibilities and load on our REST API and added redundancy thus eliminating the single point of failure.
- Built software development kit (SDK) for use in user's backend application, responsible for connection to SmoothSail architecture, published as NPM package with documentation.
- Identified and corrected a critical bug that prevented horizontal scaling a component in our architecture which would have resulted in degraded performance of SmoothSail.
- Implemented feature flag evaluation logic used by the embedded SDK to evaluate feature flags. Made engineering decisions to simplify the complexity leading to a lightweight SDK for users.
- Discovered SDK at risk for failed connections due to network unreliability and conducted research to minimized the impact. Implemented functionality for identifying and addressing stale connections in SDK 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 application and developed a plan to optimize 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 –
12/2023

Developed open-source software, some highlighted projects include:

- **RequestTool:** 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 –
09/2022

- Project lead for DoD Configuration Management Program transformation efforts. Led a working group of cybersecurity, logistics, and engineering stakeholders to overhaul systems engineering and configuration management processes while ensuring compliance with nuclear program requirements.

Nuclear Engineer - United States Navy

05/2015 –
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. Responsible for the safe operation of a 550MW nuclear reactor and all associated systems.
- Electrical lead for 4160V electrical distribution system. Led a division of 35 personnel through the scheduling and performance of over 200 maintenance items resulting in an overall readiness score above the fleet's average during the ship's most rigorous annual nuclear engineering inspection.

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