Steve Price *Software Engineer*

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Professional Experience

Creator, Software Engineer, *Mayfly* ⬈   2023 – present

Mayfly (mayfly.dev) is an open-source tool for hosting high-compute and stateful apps in the browser using session backends. Mayfly consists of a Controller for the orchestration and communication of all session backends, and one or more Drones to host the backend for the duration of the session.

- Developed a multi-tier architecture for the deployment of session backends, enabling integration into an existing AWS codebase (**Docker, Docker-Compose, AWS EC2**)
- Orchestrated communication of the Controller and Drone(s) via a **NATS** server.
- Automated the deployment of containerized user sessions, reducing the overall time needed to access the application via an endpoint URL. (**Packer, AWS AMI**)
- Constructed numerous database schemas in **PostgreSQL** and **GraphQL**, while considering drawbacks and tradeoffs.
- Architected a **RESTful API** in **Node** and **Express** to enable communication between **NATS**, a pub/sub message queue, the database tier and 3rd party software.
- Designed a UI for streamlining user experience with **React** and **Tailwind CSS**.
- Authored an in-depth case study (mayfly.dev) that provides a comprehensive analysis of Mayfly's problem domain, use case, as well as engineering decisions and tradeoffs.
- Collaborated remotely with an international team of four engineers across three time zones, including daily stand-ups, pair programming, and code reviews.

Open Source Sofware Engineer, *Mozilla Firefox*   2024 – present

Contribute to open source codebase, submitting patches for long standing bugs, ensuring new patches across dozens of files follow standardized conventions and pass all current and added tests. Including:

- Replacing outdated methods to take advantage of newer libraries and functions
- Updating CSS and JavaScript to ensure a consistent user interface throughout the browser
- Move large objects and their dependencies to their own files, adding tests to ensure functionalities
- Actively mentor and onboard new contributors, providing guidance and support as needed

Software Engineer, *Self-employed*   2021 – 2023

- Developed open-source applications, learn new programming languages/technologies.

Project Analyst, *URC West, Inc*   2016 – 2022

- Automated bidding and analysis spreadsheets to minimize bidding process time and maintain accuracy.
- Worked with clients/team to ensure schedules are completed within agreed upon timeframe.

Education

Launch School   2021 – 2023

Multi-year, mastery-based software engineering curriculum. Read more launchschool.com/employers ⬈

Skills

Back End
Node.js, Express, Ruby/Rails, Go, Python/Django/Flask, PostgreSQL, MongoDB

Front End
JavaScript, TypesScript, React/Redux, Handlebars, HTML/CSS, Tailwind CSS

Cloud
Digital Ocean, AWS (EC2, ECS, IAM, Route53, S3), Heroku

Other
Git/GitHub, Docker, Linux, Bash, HTTP, Rest APIs, WebSockets, Jest, OOP, Nginx, Postman