

Eli Burch

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[LinkedIn](#)

[GitHub](#)

Skills

Software: Git, GitHub, GitLab, VS Code, Neovim, IntelliJ, Eclipse, Docker, Docker Compose, Linux, SQLite, Oracle SQL

Programming: Go, REST, OpenAPI, Java, Spring MVC, Hibernate, React, Next.js, Redux, Jest, JavaScript, CI/CD, GLFW, OpenGL

Open Source Experience

Core Contributor, Fyne UI Toolkit (Go, 28k stars on GitHub): July 2025 – Present

- Analyzed Go pprof flame charts to identify 5+ performance improvements across the text shaping and rendering pipeline.
- Reviewed pull requests from the community and other contributors, enforcing readability and idiomatic Go style.
- Implemented multiple performance optimizations to the OpenGL rendering pipeline, reducing paint times by 66%.
- Contributed improvements to custom JSON theme parsing, resulting in 46% faster color lookups.
- Profiled the mobile specific rendering pipeline, discovering subtle improvements that resulted in performance increases on IOS and Android platforms of up to 76%.

Work Experience

Software Engineer, Pivotal IT Services: December 2022 – Present

- Architect a modern rewrite of a highly complex legacy Java application, moving the Frontend from JSP+Struts to React/Next.js.
- Develop new features for a Java Spring application which processes the healthcare records of 9 million+ veterans in the US.
- Spearheaded the implementation of a Jest test suite for a React/Redux/Next.js application. Increased test coverage by 40% with 850+ user interaction driven tests.
- Serve as subject-matter expert for the legacy monolith, answering questions about DB limitations and current application behavior.
- Collaborate with Design, Business, and Quality assurance teams to improve UX, while also preventing regressions in functionality.

Software Engineer Intern, Jama Software: July 2022 – December 2022

- Designed and developed multiple Java applications that generated a total of \$65,000 in revenue.
- Implemented new asynchronous API methods for an internal library, which process API requests 5 times faster than the synchronous methods; Used daily by 15+ engineers across 3 teams.

Software QA Engineer Intern, Multnomah County: January 2022 – July 2022

- Designed Selenium Grid infrastructure; One control node, and worker nodes that run tests in parallel, resulting in 70% shorter test suite execution time; Deployed with Docker Compose.

Linux System Administrator, CAT@PSU: September 2020 – December 2022

- Maintained 268 Ubuntu and 8 CentOS student/faculty-use machines using Puppet for configuration management, and Ansible for automated deployments.

Education

B.S. Computer Science, Portland State University - 2022