Kolin Newby
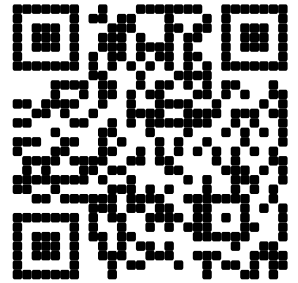
Software Engineer - Full Stack | React | APIs | SQL | Go

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GitHub: github.com/kolin-newby   Portfolio: kolinnewby.dev#projects

PROFESSIONAL SUMMARY

Resilient and passionate Full Stack Software Engineer with 4+ years of experience specializing in React, TypeScript, and scalable backend architectures. Proven track record of effectively leveraging AI tools, optimizing system performance, leading UI modernizations, and streamlining development cycles through global stakeholder coordination. Expertise spans the full software development lifecycle, from researching emerging technologies like eBPF to implementing high-concurrency tooling and gRPC-based services.

EXPERIENCE

June 2023 - November 2025   Software Engineer | Graylog   React - TypeScript - API - Cypress.io

- Coordinated with global stakeholders to design and implement new features across frontend and backend teams, improving usability and utility for 100% of users.

- Created mock-ups and demonstrations to align product owners and engineers throughout development, eliminating days of waiting for feedback.

- Tested finished features end-to-end to find missing edge cases and bugs before release, enabling QA (quality assurance) engineers to assess feature readiness.

- Fixed active bugs across the frontend to prepare the codebase for future releases, increasing product usability and reliability for 10,000+ customers.

- Utilized Postman and Curl to test and validate API traffic and logger performance, ensuring complete API traffic capture with minimum performance overhead.

June 2021 - June 2023   Software Engineer | Resurface Labs   React - TypeScript - SQL - Go - gRPC - Java

- Led development and modernization of the user interface and experience, contributing to an increase of 60,000+ prospective customers through product acquisition.

- Optimized SQL queries and backend data structures to decrease frontend query times, improving overall product scalability and responsiveness by ~100%.

- Researched and developed proof of concept eBPF prototype, informing full implementation and decreasing logging performance overhead by 2x.

- Developed open-source tools to test logger performance, validating performance of loggers on the order of 10,000 calls per second and 1,000,000 calls logged.

SKILLS

Core Competencies

Agile Development, Asynchronous Communication, Translating Sales Requirements, Web Application Development, User Interface Design, User Experience Design, CI/CD Pipeline, AI Assisted Development

Technical Skills

TypeScript, JavaScript, React, Vite, Supabase, HTML, CSS, Tailwind CSS, SQL, JSON, Go, gRPC, Goroutines, Rust, Java, Python, APIs, Docker, Terraform, AWS, Cypress, Unit Testing, End-To-End Testing, Curl, Postman, GitHub CoPilot, Codex

EDUCATION

May 2021   Bachelor of Science in Computer Science, University of Colorado
Boulder, CO, USA

PROJECTS

Rust Chat

- TCP-based chat written in Rust that uses JSON serialization and asynchronous I/O to exchange messages and system events over the network.

API Traffic Load Tester

- Open-source, purpose-built API testing tool that can simulate large volumes of concurrent API traffic using Goroutines and gRPC.

API Traffic Logger

- Open-source project written in Go that hooks into an API's source code or via middleware and records request and response data in real-time.