

# Liam Rooney

## Software Engineer

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Full-stack engineer (1+ year) building web & desktop apps, managing Linux/self-hosted services, & deploying on GCP. Proficient in React, JavaScript/TypeScript, Python, and C/C++.

## Experience

### Software Engineer

#### Alzo Health

Firebase | Firestore | GCP | Next.js | React | RESTful

📅 Mar. 2024 – Jan. 2025

📍 Remote

- Architected and developed a unified Next.js monolithic application by consolidating five disparate React micro-frontends, resulting in improved SPA performance and reduced page load times.
- Implemented a CI/CD pipeline using Firebase App Hosting, automating the build and deployment process upon new commits to the main branch.
- Secured public cloud functions by migrating them behind Google API Gateways, enabling authentication without modifying existing function logic.
- Optimized data storage and retrieval by migrating test submissions from JSON files to Firebase NoSQL database.

## Projects

### Twitch Clip Redemption

GraphQL | React | React Query | TailwindCSS | TypeScript | Vite

- Developed a client-side web application that enables Twitch viewers to redeem channel points for random clips, enhancing viewer engagement.
- Featured on live streams, attracting audiences of up to 30,000 viewers.
- Leveraged reverse engineering to utilize Twitch's private GraphQL API, simplifying usage by removing the need for user authentication.
- Refactored the codebase from pure JavaScript and HTML to React and React Query to leverage built-in caching capabilities and improve performance.
- Integrated with OBS, the leading streaming software, allowing seamless control over clip playback (enabling, disabling, pausing, skipping).
- Provided a guided, interactive setup process for easy deployment by streamers.

## Open Source Contributions

### Chatterino2

2.1k ☆

PRs: #5626

C++ | Qt

- Implemented a new CLI argument in Chatterino2, a widely-used FOSS Twitch chat client, enabling users to specify a login username via the command line.
- Enhanced user experience by providing explicit user selection at startup, for users with multiple accounts or privacy concerns to select their login behavior.
- Developed an encrypted messaging feature in a personal fork, leveraging OpenSSL for secure communication.
- Seamlessly integrated the encryption feature into the existing UI and command subsystem, providing users with intuitive controls to manage private keys, toggle encryption per channel, and send encrypted/decrypted messages via commands.

### audio-slicer

1.3k ☆

PRs: #21

ffmpeg | libsndfile | PySide6 | Python | Qt

- Enhanced audio-slicer, a tool designed for preparing audio datasets for AI voice model training by splitting audio and removing silence.
- Expanded input codec support to all formats supported by libsndfile, enhancing the tool's versatility.
- Introduced new output options for FLAC and MP3 encoding, increasing the tool's compatibility with various audio processing workflows.

## Objective

Seeking to advance my skills and build a strong career with a company that values innovation and creativity.

## Education

### University of California, Santa Cruz

Sep. 2019 - June 2023 Santa Cruz, CA  
B.S in Computer Science 3.66 GPA

## Certifications

**Google Cloud Digital Leader** Feb. 2025 - Feb. 2028

Demonstrated an understanding of Cloud Computing and applications of Google Cloud.

## Technical Expertise

Linux	5 years
Git	4 years
HTML/CSS	3 years
React	3 years
TypeScript	3 years
Python	2 years
C++	3 years
Next.js	2 years
SQL	2 years

## Skills/Exposure

JavaScript • Tailwind CSS • Vite • C • Haskell • Go • Java • Kotlin • Node.js • Express.js • Shell • Qt • PostgreSQL • GCP • Docker • Podman • Material UI • Jest • GraphQL Yoga • Assembly

## Tools/Platforms

Firebase • GitHub • Gitlab • GNU Debugger (GDB) • Valgrind • Slack • Bruno • FreeBSD

## Coursework

- Full Stack Web Development
- Database Systems & SQL
- Data Structures & Algorithms
- Algorithm Analysis
- Intro to Software Engineering
- Computer Security Design
- Operating Systems Design
- Functional Programming