Garon Fok

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Work Experience

Software Engineer
Campbell, CA

FreeAgent CRM — Nov 2022 – Mar 2023

- Developed features for customer relationship management system using React, JavaScript, GraphQL, and Postgres
- Conceptualized e-commerce and data management features by coordinating and communicating with company clients
- Increased time efficiency in creating client staff reports by using React and Sass to build a tool for automated PDF report generation
- Modernized email API by adding support for image file attachments and template formatting using JavaScript and GraphQL

Software Engineer Intern
Champaign, IL

Illiac Software — Mar 2022 – Nov 2022

- Coordinated with Agile team to build features for web-based learning platform in preparation for major release
- Developed REST API for users to send/receive messages to each other using PHP, Laravel, and Postgres
- Improved user navigation by developing a dynamic and responsive notification system using React, Redux, and TypeScript
- Ensured app stability and functionality by writing unit and end-to-end tests using Cypress
- Feature releases resulted in an improved education platform that increased user count by 25%

Quality Assurance Intern
Champaign, IL

Illiac Software — Oct 2019 – May 2021

- Conducted user tests on Windows, MacOS, and ChromeOS for performance, stability, and navigability
- Enabled tracking and identification of issues by documenting bugs in Jira
- Prepared release of platform for iOS and iPadOS by identifying performance bottlenecks based on CPU architecture

Projects

Sheet Music Library Desktop Application
https://github.com/garonfok/blackbird

- Desktop application for Windows and MacOS that catalogs sheet music built with SQLite, Rust, Tauri, TypeScript, and React
- Users can upload PDF collections as music pieces and search their music library using refined search parameters

Minecraft Block Art Generator
https://github.com/garonfok/blockulator

- Web application for generating Minecraft block art from images using React, TypeScript, Java, and Spring
- REST API converts pixel colors to blocks by mapping RGBA values of pixels to nearest average block color

Homelab

- Manage a home lab to broaden knowledge of computer science and system design
- Run services such as a NAS, VPN, proxy management, server hosting, CI/CD, and local media streaming using Linux, Docker, Traefik, and Proxmox hypervisor

Skills

- **Programming Languages**: JavaScript, TypeScript, Python, Rust, MySQL, PostgreSQL
- **Frameworks/Technologies**: HTML/CSS, Sass, React, GraphQL, Tailwind, Node.js, Redux, Electron, Tauri, Docker, Linux

Education

University of Illinois at Urbana-Champaign
May 2021

BME in Music Education — 3.94 GPA

Highest Honors, Dean's List