

# Garon Fok

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## Work Experience

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### Software Engineer

Nov 2022 - Mar 2023

FreeAgent CRM

Campbell, CA

- 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.
- Reduced the amount of time for client to generate staff information report by 75% by using React to build a scalable application for automated user PDF report generation.
- Modernized email API by adding support for image file attachments and template formatting using JavaScript and GraphQL.

### Software Engineer Intern

Mar 2022 - Nov 2022

Illiac Software

Champaign, IL

- 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 Engineer Intern

Oct 2019 - May 2021

Illiac Software

Champaign, IL

- 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

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### Sheet Music Library Desktop Application

<https://github.com/garonfok/blackbird>

- Built desktop application for Windows and MacOS for managing digital sheet music using TypeScript, React, NodeJS, Sequelize, and SQLite.
- Designed file cataloging system that utilizes piece metadata to allow users to search for music with refined search parameters.

### Discord Server Bot

<https://github.com/garonfok/pandabot>

- Created Discord bot for tracking Minecraft worlds using TypeScript, NodeJS, MongoDB and the Discord API.
- Simplified in-game data management by designing a world and waypoint management system, using Discord's roles and server command system.

### Homelab

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

## Technical Skills

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### Programming Languages

JavaScript, TypeScript, Python, MySQL, PostgreSQL

### Frameworks/Libraries

HTML/CSS, SASS, React, GraphQL, TailwindCSS, NodeJS, MongoDB, Redux, ElectronJS

### Tools/Platforms

Linux, Docker, Jira, AWS EC2, Git, Gitlab, GitHub, Bitbucket

## Education

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### University of Illinois at Urbana-Champaign

May 2021

Bachelor of Music Education

GPA: 3.94

Graduated with distinction of Highest Honors and placement on Dean's List.