

Garon Fok

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Work Experience

FreeAgent CRM

Nov 2022 - Mar 2023

Software Engineer

Campbell, CA

- Developed inventory tracking system for e-commerce client using React, JavaScript, GraphQL, and Postgres, resulting in an automated product management platform that improved client growth by 40%.
- Authored documentation on integrating GraphQL with platform API, reducing onboarding time for new employees by one week.
- Updated email notification system to allow for email attachments and template formatting by modifying the email API implementation, improving employee/customer productivity by 25%.
- Designed and developed a fully customizable staff reporting web app, resulting in a 75% increase in client productivity.

Illiac Software

Mar 2022 - Nov 2022

Software Engineer

Champaign, IL

- Improved user navigation by developing a dynamic and responsive notification system using React and TypeScript.
- Developed REST API for students and teachers to send/receive messages on submitted assignments using PHP, Laravel, and Postgres.
- Redesigned an assignment management system by implementing a drag and drop UI feature.
- Ensured app stability and functionality by writing unit tests using Cypress.
- Led redesign of user dashboard layout, improving user navigability and accessibility

Illiac Software

Oct 2019 - May 2021

Quality Assurance Engineer Intern

Champaign, IL

- Tested platform features on Windows, MacOS, and ChromeOS for performance, stability, and navigability.
- Documented and tracked bugs using Jira, enabling reproducibility and identification of issues.
- Collaborated with platform engineering team to benchmark app performance based on CPU architecture

Projects

Pandabot

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

TypeScript, NodeJS, MongoDB, DiscordJS, WOKCommands

- Created Discord bot for tracking Minecraft worlds and coordinates using TypeScript, MongoDB and the Discord API.
- Designed features that let users manage multiple worlds, waypoints, and dimensions across a single server through Discord's role and slash command system.

Blackbird

TypeScript, ElectronJS, React, TailwindCSS, NodeJS, Redux, SQLite

- Created desktop application for Windows, and MacOS that allows music teachers and music librarians to manage digital sheet music using TypeScript, ReactJS, NodeJS, Sequelize, and SQLite.
- Designed detailed and human-readable file catalog allowing for users to search for pieces using piece metadata to refine search parameters.
- Directory management system can automatically rename, sort, and reorganize PDF files in association with pieces.

Homelab

Docker, Proxmox Virtual Environment, Linux, Raspberry Pi, TrueNAS SCALE

- Manage services such as NAS, VPN, adblocking, local media streaming using Docker and Proxmox hypervisor.
- Use homelab to learn network engineering and DevOps skills, as well as host web apps and game servers.

Technical Skills

Programming Languages JavaScript, TypeScript, Python, MySQL, PostgreSQL

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

Tools/Platforms Docker, AWS EC2, Git, Gitlab, GitHub, Bitbucket, Jira, Cypress

Education

University of Illinois at Urbana-Champaign

May 2021

B.M.E. Music Education

Champaign, IL

3.94 GPA With Highest Honors, Dean's List