

Garon Fok

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Work Experience

Illiac Software | Software Engineer

Champaign, IL

TypeScript, React, Sass, Redux, MySQL, AWS, Docker, Axios, Jira

April 2022 - Present

- Improve Redux frameworks by eliminating unnecessary API calls to SQL database, reducing load time by 50%
- Develop dynamic and responsive notification system on web app using React, Redux, and Axios
- Manage user profile info and login data using MySQL
- Use Agile development principles to push features and fix bugs in incremental and consistent fashion

Hopkins Jr. High School | Director of Band and Orchestra

Fremont, CA

Aug 2021 - Jun 2022

- Developed the ability of over 300 students in musicality and technique through ensemble rehearsal of 6 award-winning concert bands and string orchestras
- Supervised program's annual financial budget of over \$50,000 used for hiring personnel, purchasing equipment/instruments, and repairs
- Created application to automatically create daily lessons plans using Python

Illiac Software | Quality Assurance Engineer

Champaign, IL

Oct 2019 - May 2021

- Tested features by running edge cases in a procedural fashion, allowing identification and reporting of issues
- Documented issues and errors on Jira, ensuring issues could be reproduced and fixed
- Benchmarked performance load when testing on different operating systems

Relevant Projects

Pandabot

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

TypeScript, Node.js, MongoDB, DiscordJS, WOKCommands

- Created CRUD app to manage Minecraft worlds and coordinates using moongoose API, interfaced by Discord's user role system
- Implemented async/await callback functions to store and retrieve information from MongoDB databases
- Improved database interaction by implementing relational data system

Personal Website

<https://garonfok.com>

TypeScript, Node.js, React, TailwindCSS, Netlify

- Created static portfolio website using React and TailwindCSS
- Designed user interfaces using modern accessibility standards, allowing for an intuitive user experience
- Integrated CI/CD by utilizing Netlify hosting off a GitHub repository, ensuring rapid bugfixing and updates

Reddit-Downloader

<https://github.com/garonfok/redditor-downloader>

Python, Requests, PRAW, argparse

- Wrote CLI tool that uses Reddit's REST API to fetch and download media posts of any given Reddit user
- Added full modularity in argument parsing using the UNIX access-control list paradigm, shortening load time
- Implemented deduplication of downloaded content using hashset data structure, saving download time by 90%

Technical Skills

Programming Languages Python, HTML/CSS, JavaScript, TypeScript, SQL, C#

Frameworks/Libraries React, Node.js, TailwindCSS, MongoDB, Redux, Axios

Tools/Platforms Docker, AWS, Git, Jira

Education

University of Illinois at Urbana-Champaign

Champaign, IL

B.M.E. in Music Education

May 2021

With Highest Honors, 3.94 GPA