Garon Fok

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Work Experience

Illiac Software
Champaign, IL

Software Engineer
April 2022 - Present

- Develop and test React frameworks to make more efficient API calls to SQL database saving time and bandwidth
- Implement feature requests to improve user experience and navigation accessibility
- Improve user experience by adding accessibility features to make page navigation more intuitive

Quality Assurance Engineer
Oct 2019 - May 2021

- Maintained record of issues and bugs for music theory worksheet software Harmonia using Jira
- Identified and reported issues with navigation and feature implementations on MacOS, Windows 10, Android, and iOS

Hopkins Jr. High School
Fremont, CA

Director of Band and Orchestra
Aug 2021 - Jun 2022

- Developed student ability in musicality and technique through ensemble rehearsal to 6 award-winning concert bands and string orchestras
- Coordinated lessons and curriculum design with coaches and instructors to provide over 300 elementary students with comprehensive music education for the Mission San Jose Area
- Oversaw program's annual financial budget used for expensing costs including hiring personnel, purchasing equipment/instruments/supplies, and repairs

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

Redditor-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, JavaScript, TypeScript, SQL, LaTeX
Frameworks/Libraries React, Node.js, TailwindCSS, MongoDB, Redux, Pandas
Tools/Platforms MacOS, Windows, Linux, Raspberry Pi OS, Docker, AWS, Git

Education

University of Illinois at Urbana-Champaign
Champaign, IL

B.M.E. in Music Education
May 2021

With Highest Honors, 3.94 GPA