Garon Fok

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Work Experience

Illiac Software
Champaign, IL
Software Engineer
April 2022 - Present
- Improve Redux frameworks by eliminating unnecessary API calls to SQL database, reducing load time by 50%
- Develop dynamic and responsive web components that update and fetch backend data using React and Redux
- Manage user profile info and login data using MySQL
- Design and write unit tests using Cypress to ensure app stability and functionality

Hopkins Jr. High School
Fremont, CA
Band and Orchestra Director
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
Champaign, IL
Quality Assurance Engineer
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 MongoDB's mongoose 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

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%

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

Technical Skills

Programming Languages HTML/CSS, JavaScript, TypeScript, Python, SQL, Bash
Frameworks/Libraries React, Node.js, MongoDB, Redux, Axios
Tools/Platforms Docker, AWS, MySQL, 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