Alex Kefer

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EDUCATION

Western Washington University   Bellingham, WA
Bachelors of Science, Computer Science   *June 2024*
- Certificate of Web Programming
- Relevant Coursework: Data Structures, Operating Systems, Object-Oriented Programming, Database Programming, Computer Networks, Mobile Device Programming, Cloud Computing, Cloud Security, Web-scripting, Accessible Computing, Human-Centered Interaction

EXPERIENCE

Full-Stack Engineer   November 2024 - Present
Solution Community   *Remote*
- Actively developing a platform designed to connect individuals in need with those offering help, focusing on seamless user experience and efficient support matching.
- Contributes to maintaining the website using Next.js, ensuring a responsive, accessible, and modern web interface.
- Collaborates with a team on product design, guidelines and feature planning.

Web Developer 3   January 2024 – June 2024
Western Washington University - WebTech   *Bellingham, WA*
- Designed and developed an Astro.js application to generate descriptive alternative text for images, improving website accessibility for WWU content creators.
- Integrated cutting-edge AI APIs to analyze images and generate contextually relevant text descriptions.
- Implemented Azure AD authentication to secure the application to users within the university's user-base.

PROJECTS

Web Weasel | *Golang, React, JavaScript*   Fall 2024 – Spring 2024
- Built a Chrome extension to streamline local network web page sharing.
- Developed a robust Golang web cache capable of handling diverse website structures and restrictions.
- Constructed the user-facing interface using Vite, React, and the CRXjs framework for seamless extension integration.

ShelfLife | *Vite, JavaScript, MongoDB*   Spring 2024
- Designed and implemented a video game review platform, enabling users to review and share their favorite games.
- Developed a MongoDB-based database schema to efficiently manage users, games, and reviews.
- Implemented a secure authentication system with user registration, login, and logout functionality.

Class Registration System | *Java*   Winter 2022
- Developed a class registration system in Java, leveraging JDBC prepared statements to interact with a SQL database for retrieving and sending information.
- Utilized prepared statements to sanitize input and prevent unwarranted database access.

Server Database with a Client | *C*   Fall 2022
- Designed a server database employing a hash table and LRU cache for optimal efficiency.
- Developed both command-line client and server programs to process commands for data manipulation (get, set, remove, update).

Spell Checker | *Java*   Fall 2021
- Implemented a spell checker capable of identifying common errors and providing multiple word suggestions.
- Created a hash-mapped dictionary utilizing a custom hashing algorithm for efficient word lookup.

TECHNICAL SKILLS

Languages: Java, JavaScript, Golang, C, C#, Python, HTML/CSS, SQL
Frameworks: React, React Native, Node.js, Next.js, Vite.js, Astro.js, CRX.js, Wails
Developer Tools: AWS, Azure, MongoDB
Libraries: JDBC
Operating Systems: Linux, Mac OS X, Windows