

# 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

## EXPERIENCE

### Bartender & Banquet Server

January 2024 – Present

*Four Points by Sheraton*

*Bellingham, WA*

- Efficiently and politely assists customers whilst balancing time to build other server's drinks.
- Works in a team to efficiently setup, serve, and cleanup large banquet events.

### 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 schools directory.

## PROJECTS

### Nutrient Tracker | *React Native, JavaScript*

Summer 2023 – Present

- Developing a nutrient tracking application to empower users to monitor their daily nutrient intake against personalized goals, ensuring data privacy through local storage.
- Integrated flexible data input options within the application, including search capabilities on the USDA FoodData API and manual entry for custom items.

### Web Weasel | *Golang, React, JavaScript*

Fall 2024 – Spring 2024

- Built a Chrome extension with a Golang back end with a React front end to streamline local network web page sharing.
- Developed a robust Golang web downloader capable of handling diverse website structures and restrictions.
- Constructed the user-facing interface using Vite, React, and the CRXjs framework for seamless extension integration.

### 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, Vite.js, Astro.js, CRX.js, Wails

**Developer Tools:** AWS, Azure

**Libraries:** JDBC

**Operating Systems:** Linux, Mac OS X, Windows