Skyler Simpson

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EDUCATION

Western Washington University   **Bellingham, WA**
Computer Science, BS   *Graduation Date: Dec 2025*

CERTIFICATIONS

Web Development Bootcamp Certificate - Western Washington University, 2024
- Completed a **120-hour** intensive bootcamp covering:
  - **HTML & CSS (40 hours):** Mastered responsive design, accessibility, and modern styling techniques.
  - **Introductory Web Development (40 hours):** Built foundational skills in front-end and back-end development.
  - **JavaScript (40 hours):** Developed dynamic, interactive web applications using core JS concepts.

TECHNICAL SKILLS

Programming Languages: Javascript, Java, C, Python, SQL
Tools: Git, Github, Windows, Linux, MongoDB, MySQL
Web Technologies: HTML, CSS, React.js, Node.js

RELEVANT EXPERIENCE

Undergraduate Researcher   **Bellingham, WA**
Researcher   *Nov 2024 - Present*
- Collaborating with Dr. Qiang Hao to research the integration of Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies in computer science courses
- Targeting publication at SIGCSE Technical Symposium 2026, a leading conference in computer science education

Leadership in the service industry   **Bellingham, WA**
Lead bartender/server   *Jan 2022 - Dec 2024*
- Balancing a part-time job alongside full-time coursework, demonstrating time management, adaptability, and commitment
- As a head bartender/server I developed leadership, management, and problem solving skills, along with acute attention to details while working in a face-paced environment

PROJECTS

Dictionary App - Full Stack Web Application   *Sep 2024*
Javascript
- Developed and deployed a **dictionary web appplication** using **React.js (frontend)** and **Node.js (backend)**.
- Utilized **MongoDB** for efficient data storage and retrieval.
- Ensured a **responsive and user-friendly UI** with modern design principles.

Internet Cache Replication - Socket Programming   *Aug 2024*
C
- **Built a client-server cache system** using **C** and **socket programming** over localhost, replicating internet caching behavior.
- **Implemented custom data structures** (node, linked list, hashtable) for efficient cache management, handling **GET**, **SET**, and **REPLACE** operations.
- **Optimized memory usage and access speed** through hashing and linked list management, simulating real-world network caching systems

INVOLVEMENT

Vice President – Competitive Programming Club
- Lead weekly meetings, selecting **Leetcode problems** to challenge members and improve problem-solving skills.