Kyle Downing

Email: kyleshinya@gmail.com - Cell: 425-698-3422

LinkedIn: https://www.linkedin.com/in/kyledowning/

OBJECTIVE

Motivated senior Computer Science student entering graduate studies at Western Washington University in Winter 2026.

EDUCATION

B.S., Computer Science Pre-Masters, Western Washington University　　　　　Bellingham, WA
GPA 3.7　　　　　*Expected Graduation: Dec. 2025*

RELEVANT COURSEWORK

Relevant Coursework: Analysis of Algorithms, Operating Systems, Computer Networks, Object-Oriented Programming, Data Structures, Programming Language Pragmatics, Database Systems.

EXPERIENCE AND PROJECTS

Western Washington University, Computer Science Department　　　　　Sept. 2024 – March 2025
Computer Science Tutor　　　　　*Western Washington University*

- Improved student programming proficiency by providing targeted Java and C debugging assistance, breaking down complex language features into digestible concepts as measured by student assignment grade improvements and reduced debugging time.
- Increased student comprehension of core CS concepts, leveraging deep knowledge in data structures, algorithms, and systems programming to provide tailored explanations and real-world applications as measured by exam score improvements and positive feedback surveys.
- Enhanced student engagement and confidence by fostering an inclusive learning environment, actively encouraging questions, and adapting tutoring methods to individual learning styles as measured by increased session attendance rates and student retention.

WWU Committee Finder　　　　　Sept. 2024 – Dec 2025
Developer

- Developed automated data extraction pipeline processing hundreds of university committee pages by implementing advanced web scraping techniques with Python and LLM integration through Ollama API as measured by 90% accuracy in committee information extraction and a significant reduction in manual data collection time.
- Delivered user-focused features ahead of schedule by leading user story creation, sprint planning, and iterative development in an agile environment as measured by 100% user acceptance of core features.
- Bridged technical complexity with business needs by translating non-technical user requirements into actionable development tasks and providing regular progress updates.

ARC: https://arc.cs.wwu.edu　　　　　June 2025 – Present
Developer

- Built full-stack autism research platform using React, Flask Python API, and SQL database, creating dynamic data visualizations as measured by processing 1000+ research data points
- Led solo development of scalable web application architecture and comprehensive documentation by designing modular code base and on-boarding instructions as measured by readiness to expand team by 3 people.
- Delivered research analytics solution exceeding faculty expectations by translating complex research requirements into intuitive visualizations and trend analysis tools.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, HTML5, CSS3, SQL
Frameworks & Libraries: React, Flask, Tailwind CSS, Recharts
Tools & Technologies: Git, RESTful APIs, LLMs, Web Scraping
Databases & Systems: SQL, Linux/Unix
Research Areas: Blockchain, Networks