Kyle Downing

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PROFESSIONAL SUMMARY

Computer Science senior (B.S./Pre-Master's) at Western Washington University beginning M.S. in Computer Science starting Winter 2026. Seeking a **Summer 2026 software engineering internship** (full-time Jan. 2027).

EDUCATION

Western Washington University   Bellingham, WA
M.S. Computer Science (Admitted)   *Expected Dec. 2026*

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

RELEVANT COURSEWORK

- Analysis of Algorithms
- Data Structures
- Computer Networks
- Database Systems
- Object-Oriented Programming
- Web Development

PROFESSIONAL EXPERIENCE

Computer Science Tutor   Sept. 2024 – Mar. 2025
Western Washington University, Computer Science Department   *Bellingham, WA*
- Enhanced student programming proficiency in **Java** and **C** through targeted **debugging** guidance and **algorithm optimization** techniques, resulting in measurable improvements in assignment scores and exam performance.
- Delivered instruction on **data structures**, **algorithms**, and **systems programming** concepts using **TDD** principles and **object-oriented programming** best practices; maintained near 100% positive feedback rating.
- Adapted teaching methods to accommodate diverse learning styles in collaborative environments, fostering inclusive participation across student skill levels.

TECHNICAL PROJECTS

ARC: Autism Research Platform — arc.cs.wwu.edu   June 2025 – Present
Full-Stack Developer   *React, Flask, SQL, REST APIs*
- Architected and deployed **full-stack** research platform processing 1,000+ autism research data points with **React** frontend, **Flask REST API** backend, and **PostgreSQL database**; improved faculty research workflows.
- Implemented interactive **data visualizations** and **analytics dashboard** using Recharts and custom **SQL queries** to surface insights from complex research datasets.
- Established **CI/CD pipeline** with **automated testing**; created comprehensive technical documentation enabling seamless on-boarding of 3+ additional developers.

WWU Committee Finder   Sept. 2024 – Dec. 2024
Software Engineer   *Python, LLM APIs, Web Scraping*
- Integrated Ollama **LLM API** for intelligent parsing and data normalization, achieving 90% extraction accuracy across inconsistent **HTML** structures and reducing post-processing requirements.
- Delivered core functionality 2 weeks ahead of schedule through **Agile** methodology and stakeholder collaboration; produced technical documentation enabling maintainability by non-technical administrators.

KEYWORDS

- **Languages:** Python, Java, C, JavaScript, SQL
- **Frameworks & APIs:** React, Flask, REST APIs, Tailwind CSS
- **Tools & DevOps:** Git, CI/CD, Linux/Unix
- **Data / AI:** SQL, Data Visualization, LLM Integration, Web Scraping
- **Practices:** Agile, Test Automation, TDD, Performance Optimization