

**Danny Muir**  
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## Objective

Sophomore in Computer Engineering at the University of Washington with leadership and research experience at the Sensors, Energy, and Automation Laboratory (SEAL). Seeking research or internship opportunities to apply expertise in machine learning, automation, and interdisciplinary collaboration toward advancing neurotechnology, biotech, and neuromorphic computing. Passionate about leveraging technology to address complex healthcare challenges through innovative solutions.

## Education

**University of Washington, Seattle** *Expected June 2027*  
*Bachelor of Science in Computer Engineering, Paul G. Allen School of Computer Science & Engineering* **GPA: 3.86**  
**Relevant Coursework:** Computer Programming, Data Structures, Scientific Computing, Physics, Chemistry, Biology

## Experience

**Vice President of Operations**, Sensors, Energy, and Automation Laboratory (SEAL), UW Mar 2025–Present  
- Founded and lead the Project Management Team, developing custom automation solutions and interfaces to enhance laboratory workflow efficiency.  
- Author and refine comprehensive workflow guidelines and documentation while optimizing management tools through collaboration with the software team.  
- Identify and resolve operational bottlenecks across laboratory systems, serving as primary troubleshooter for cross-functional challenges to maintain productivity.

**Associate Researcher/Project Lead**, Sensors, Energy, and Automation Laboratory (SEAL), UW Jan 2025–Present  
- Led multiple interdisciplinary teams on projects ranging from internal DevOps solutions to DOE STTR proposal writing.  
- Spearheaded grant proposals to organizations such as DOE and Google, ensuring high-quality submissions on tight timelines.  
- Collaborated with field experts to develop LLM-driven devices and applications for academic, commercial, and defense sectors.

**Web Developer & Research Assistant**, Illimited Lab, UW June 2024–Present  
- Improved lab's website, streamlining communication and recruitment.  
- Contributed to research, offering technical insights.

**Seasonal Facilities Assistant**, Islandwood June 2023–Aug 2024  
- Conducted facility maintenance, including trail building and cleaning.

**Certified Lifeguard**, Bainbridge Island Parks & Rec Apr 2021–Jan 2022  
- Ensured patron safety, performed rescues, and maintained equipment.

## Leadership

**Vice President & New Member Educator**, Triangle Fraternity, UW Dec 2023–Present  
- Managed a STEM-exclusive fraternity, overseeing academic and social initiatives.  
- Organized events, study resources, and mentorship programs.  
- Updated and enhanced the educational program for new members, improving integration processes and developmental outcomes.

**Activities & Volunteer Coordinator**, HOSA, UW Sep 2024–Present  
- Coordinated volunteer opportunities and professional development events.

## Projects

**sudokuNet** [github.com/Zeckten/sudokuNet](https://github.com/Zeckten/sudokuNet)  
- Designed a PyTorch ResNet CNN for Sudoku solving, achieving 96.78% accuracy.  
- Optimized model with hyperparameter tuning, training on RTX 2080 Ti.

**cs50cloudchat** [github.com/Zeckten/cs50cloudchat](https://github.com/Zeckten/cs50cloudchat)  
- Built a Flask-based chat app with authentication, admin tools, and real-time messaging.

## Skills

**Programming:** Java, Python, C, JavaScript, Git, HTML | **Platforms:** Linux, Windows  
**Soft Skills:** Leadership, communication, teamwork, problem-solving