Danny Muir

Seattle, WA | danmuir@outlook.com | 206 397 5558 | linkedin.com/in/danny-muir |
github.com/zeckten

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
- Established and lead the Project Management Team, developing custom automation solutions and interfaces to enhance laboratory workflow efficiency.
- Implement targeted improvements across existing laboratory systems, optimizing operational processes through strategic technological interventions.
- Author comprehensive workflow guidelines and refine management tools through collaborative cross-team efforts.

Associate Researcher/Project Lead, Sensors, Energy, and Automation Laboratory (SEAL), UW   Jan 2025–Present
- Lead multiple interdisciplinary teams on projects ranging from internal DevOps solutions to DOE STTR proposal writing.
- Spearhead grant proposals to organizations such as DOE and Google, ensuring high-quality submissions on tight timelines.
- Collaborate 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
- Improve lab's website, streamlining communication and recruitment.
- Contribute 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
- Manage a STEM-exclusive fraternity, overseeing academic and social initiatives.
- Organize events, study resources, and mentorship programs.
- Update and enhance the educational program for new members, improving integration processes and developmental outcomes.

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

Projects

sudokuNet   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
- 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