

Daniel Muir

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Objective

Ambitious sophomore at the University of Washington pursuing a degree in Electrical and Computer Engineering. Seeking internship and research opportunities at the junction between computing and medicine. Demonstrated strong work ethic through customer service excellence and academic achievements. Eager to apply computational skills to advance cutting-edge research in computing, neuroscience, biotech, and all manner of neurotechnology and neuromorphic computing.

Education

University of Washington, Seattle, BS in Electrical and Computer Engineering Sept 2023 – June 2027

- **GPA:** 3.87
- **Relevant Coursework:** Computer Programming, Data Structures and Algorithms, Scientific Computing

Experience

Web Developer and Research Assistant June 2024 – Present
Illimited Lab, University of Washington Seattle, WA

- Enhance the lab's website, streamlining communication and facilitating recruitment by implementing notification systems and updating content
- Contribute to ongoing research projects and provide technical insights during lab meetings

Seasonal Facilities Assistant June 2023 – August 2024
Islandwood Bainbridge Island, WA

- Conducted facility maintenance, including trail building, logging, and cleaning

Certified Lifeguard April 2021 – January 2022
Bainbridge Island Metro Park & Recreation District Bainbridge Island, WA

- Ensured the safety of patrons, performed rescues, and maintained pool equipment

Leadership

Vice President December 2023 – Present
Triangle Fraternity, UW Chapter Seattle, WA

- Lead a STEM-exclusive fraternity of close to 30 members
- Manage internal chapter activities, overseeing academic, social, and historian chair positions
- Promote the academic success of members, maintaining our standing as one of the top academic chapters, by organizing collaborative study spaces, providing relevant resources, and supporting brothers on an individual and community basis
- Build brotherhood and member welfare by organizing a variety of small-to-large-scale events
- Lead the Event Committee and mentor candidates as a New Member Educator

Activities and Volunteer Coordinator September 2024 – Present
HOSA: Future Health Professionals, UW Chapter Seattle, WA

- Coordinate with outside organizations and individuals to organize volunteer opportunities and professional development activities

Projects

sudokuNet - PyTorch Sudoku Solver

December 2024

github.com/Zeckten/sudokuNet

- Developed a ResNet CNN architecture using PyTorch achieving 96.78% accuracy on empty cell predictions and 72% complete puzzle solve rate
- Implemented modular training pipeline with command-line configuration and Tensorboard visualization for model architecture analysis
- Optimized model performance through hyperparameter tuning with peak performance achieved on RTX 2080 Ti with 2M examples and a batch size of 256 across 20 epochs

cs50cloudchat

August 2021

github.com/Zeckten/cs50cloudchat

- Developed a Flask-based invite-only chat application with user authentication, admin privileges, and real-time messaging functionality
- Implemented secure user management system with password hashing, session handling, and invite-based registration
- Designed responsive UI using Bootstrap and custom CSS, with SQLite database integration for data persistence
- Deployed application using Heroku and Waitress WSGI server for cross-platform compatibility

Skills

Programming: Java, Python, C, GitHub, Git, HTML

Platforms: Linux, Web, Windows

Productivity: G Suite, Prompt Engineering, Excel

Soft Skills: Leadership, communication, event management, teamwork, problem-solving, passion for learning