

NOAH DOUGEN

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OBJECTIVE

Recent graduate with a Master's in Computer Science seeking a career opportunity to apply newly-minted technical skills. Interested in robotics and simulation software engineering. Prepared to utilize a superior work ethic, commitment to follow through, and disciplined approach to responsibilities within an organizational environment.

EDUCATION

M.S. in Computer Science | Western Washington University, Bellingham, WA

DECEMBER 2023 – JUNE 2025

GPA: 3.72

Research: *Studying the Computer Science Education Pipeline and Simulating Classroom Behavior*

B.S. in Computer Science/ Minor in English | Drake University, Des Moines, IA

SEPTEMBER 2016 – MAY 2020

Graduated Magna cum Laude with Honors

GPA: 3.73

Senior Thesis: *Connecting machine learning and tools for the differently-abled*

Received Drake University Presidential Scholarship (Academic Merit)

Study Abroad | Morocco, Spain and Portugal

JANUARY 2019

Received Levin International Studies Scholarship

TECHNOLOGY SKILLS

- Main languages are C++, Python and C#
- Experience in many languages: C, Matlab, HTML5, CSS, MySQL, Haskell
- Experience in the following areas: Robotics, simulation Deep Learning, AI, Machine Learning
- CAD experience in Solid Edge and FreeCAD
- Familiar with ROS, Gazebo, Unity, Webots
- Strong Windows, Linux, and Git knowledge

MAJOR PROJECTS

Mini-drone Object Tracking Control | Collaborative Project

02/2025 – 06/2025

- Developed software to control a crazyflie drone using an Aruco tag
- A camera would keep track of the drone and an aruco tag, then send controls to the drone so it remained near the tag

- Involved state estimation, computer vision, and kalman filtering

Classroom Simulation ML | Individual Research

12/2023 – 06/2025

- Project aiming to generate realistic simulations of a classroom environment using Unity's ML-agents package
- Development of a study from the ground up, this project involves developing and testing a research question under the guidance of a research advisor
- Examines a novel use for ML-agents as a tool for autonomous complex simulation

Pre-service CS Teacher Pathways | Collaborative Research

12/2023 – 06/2025

- Project examining the current pathways available for pre-service teachers interested in teaching CS
- Performing a comprehensive literature review in an underexplored domain, as well as interviews and data analysis
- Funded by National Science Foundation grant

Drake Relays Companion App | Drake University, Des Moines, IA

01/2020 – 05/2020

- A companion app for the Drake relays, a yearly event at Drake University.
- Designed to help students navigate different events at the Drake Relays.
- Written in Kivy, a python framework for mobile apps, and MySQL. The database was hosted using Amazon Web Service.
- <https://github.com/Noah-Dougen/CapstoneProject>
- Completed in a group setting with three other participants: William Bartolomucci, Jordan Klein, and Nicholas Shipley.



EXPERIENCE

CS Research Assistant | Western Washington University, Bellingham, WA

JANUARY 2024 TO JUNE 2025

- Played a pivotal role in advancing knowledge within the field of CS education research
- Conduct a literature review, conduct interviews, and perform data analysis
- Complete necessary tasks for research and contribute ideas to the research

CS Graduate TA | Western Washington University, Bellingham, WA

JANUARY 2023 TO DECEMBER 2023

- Tasked with running labs for undergraduate students and grading assignments
- Expected to quickly understand and teach new topics
- Requires the ability to balance workload with graduate degree studies

Electrical Department Assistant Manager | Menards, DeKalb, IL

JUNE 2021 TO MAY 2022

- Entrusted with organizing responsibilities of the Electrical Department
- Leadership role which required communication and coordination with employees
- Full time position with varying hours based on needs of the store
- Extensive customer service experience

Library Supervisor/Library Assistant | Drake University, Des Moines, IA

SUPERVISOR 2017 – 2020, ASSISTANT 2016 – 2017

- Provided solid customer service while assisting patrons utilizing library services
- Trained new employees on protocols and expectations

- Collaborated with library staff to ensure patron satisfaction
- Communicated effectively with individuals from diverse backgrounds
- Managed library inventory of resources

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LEADERSHIP AND COMMUNITY ENGAGEMENT

- Current volunteer at Miracle Food Network
- Member of both Western Washington University's University Choir and a local choir
- A founding member of Western Washington University Robotics Club
- Programmer of Drake University Extracurricular Game Development Group 2018-2020
- 1st Dan Black-Belt in Tae Kwon Do
- President of Drake University Tae Kwon Do Club 2018-2020