

Braydon James Higgins

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EDUCATION

University of Minnesota, Twin Cities

September 2022- May 2026

BS in Computer Science & Mathematics - GPA: 3.57

Relevant Coursework: Algorithms & Data Structures, Calculus I-II, Discrete Structures, Linear Algebra & Differential Equations, Machine Architecture & Organization, Advanced Programming Principles

Awards: Dean's List recipient for Fall semester 2022.

Sauk Valley Community College

August 2021-May 2022

Dual Enrollment Student - GPA 4.0

Awards: Illinois State Scholar, Sauk Valley Community College President's List

TECHNICAL SKILLS

- **Backend Languages:** C, Java, Python
- **Frontend Languages:** (proficient) CSS, HTML, JavaScript
- **Functional Languages:** Ocaml, MatLab
- **Frameworks:** Java Swing, NumPy, React, Scikit-learn, TensorFlow
- **Skills:** Algorithms, Data Structures, Firebase, Git, Jupyter, Machine Architecture

PROJECTS

Nvblox Optimization | C, C++, ROS

Jan 2024 - Current

Robotics Club Project | Computer Vision Engineer

- Currently working on various aspects of robot autonomy and decision making.
- Redesigning NVIDIA source code for optimal rough surface traversal via the addition of a second esdf layer, augmentation of the cost map, and creation of a ROS wrapper.

OmniStudy Education | HuggingFace, Firebase, Python, Typescript

Oct 2023 - Feb 2024

Google Developer Club Project | Lead Backend Engineer

- Worked as the lead backend engineer for an AI integrated education platform hosted on Google's FireBase.
- Leveraged Pinecone Document Store to process user data for use in an embedded retrieval model which feeds data to machine learning models capable of autonomously answering content specific questions and generating educational resources such as flashcards, quizzes, summaries, and other textbook specific tools.

Stock Market Prediction Model | Jupyter, Python, Scikit-learn, TensorFlow

Nov 2023 - Dec 2023

Personal Project

- Developed a machine learning model for the Optiver competition on Kaggle capable of predicting stock market closings with a 5.4 mean squared error which deviated only 3.18% from the top entry.
- Utilized Jupyter Notebook, Scikit-learn, and TensorFlow to train the LSTM model.

EXTRACURRICULARS

Lead Backend Engineer @ UMN Google Developer Club

Machine Learning Engineer @ UMN Robotics Club

Member @ UMN CSE Student Board

PROFESSIONAL EXPERIENCE

University Of Minnesota- Yudof Hall

Minneapolis, MN

Hospitality Specialist

May 2023 - Current

Utilized strong soft skills and creative problem-solving to enhance resident experience

- Promoted an inclusive and welcoming atmosphere for over 500 residents
- Streamlined operations through proactive communication and strategic implementation of software solutions, resulting in a 40% reduction in response time and a 25% increase in customer satisfaction.

LEADERSHIP EXPERIENCE

Eagle Scout - Troop 1053

- Orchestrated and led the execution of over 10 campouts and 20 community service projects positively impacting over 2000 individuals.
- Demonstrated essential aspects of leadership via efficient resource coordination, effective communication, and cultivation of a collaborative environment.