Hunter Haglid

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Education

Purdue University, West Lafayette, IN Class of 2024, Expected May 2023
Bachelor of Science, Computer Science Honors, Mathematics GPA: 3.95

Experience

Research Assistant - Purdue University, West Lafayette, IN May 2021 - Present
- Led a subteam of 7 researchers to develop a control system for an autonomous object-tracking drone
- Integrated a neural network for object recognition into a Python ROS node for object tracking
- Simulated moving agents in Gazebo using C++ to test the tracking system's accuracy
- Demonstrated team progress through a poster and oral presentation at the Purdue Summer Research Symposium

Software Co-Lead - World Competition Underwater Vehicle Team September 2020 - Present
- Engineered an autonomous control system for an underwater vehicle using OpenCV, Scikit-learn and ROS
- Implemented Agile software development methodologies using Jira to manage a team of 11 developers
- Created a tool for stitching photos of an underwater object into a continuous photomosaic map

IEEE Python Mentor - West Lafayette, IN April 2021
- Taught intermediate Python topics such as object-oriented programming through a five-part workshop

Engineering Intern - Tsapatsaris and Associates, Ridgewood, NJ July 2019 - August 2019
- Streamlined the process of creating takeoffs using VBA Scripts in Excel, automating a biweekly 2-hour process

Projects

Youndle.com LLC. - Job Search Board February 2021 - June 2021
- Worked in a student-run startup to develop a Django-React.js application in the MVC design pattern
- Designed frontend components using React.js and CSS to retrieve and store information through Django REST API's
- Managed a PostgreSQL database to store information about job postings, businesses, users, and applications

GoTrainer - Computer Vision for Recording Games of Go August 2021
Used OpenCV and a Raspberry Pi camera to record Go games, analyze them, and upload them to a database

CO2View - Carbon Emissions Data January 2021
Developed a Django/React.js web app that provides a car's emissions data from the number on its license plate

Dash-It Live (1st Place Hello World Hackathon) October 2020
Created a Django web app that predicts dining hall wait time using a Raspberry Pi to count Bluetooth devices

3D Truss Physics Simulator December 2019
Wrote a physics engine in C# simulating trusses using Object-Oriented Programming, visualizing them with Unity3D

Awards & Honors

- Purdue Corporate Partners Program Scholarship — April 2021
- Dean's List and Semester Honors — December 2020, May 2021
- 1st Place - Purdue ACM AI Handwritten Digits Classifier Competition (out of 11 teams) — November 2020
- 1st Place - Purdue Hello World Hackathon (out of 55 teams) — October 2020
- AIME Qualifier, Competitor — Feb 2020

Technical Skills

Languages
Experienced: Java, C, Python
Proficient: Javascript, C#, Julia, SQL

Libraries and Frameworks
Experienced: NumPy, OpenCV, Django, React.js
Proficient: Tensorflow, Keras

Relevant Coursework

Current: Analysis of Algorithms, Systems Programming, Numerical Methods, Probability
Complete: Data Structures and Algorithms, Computer Architecture, Object-Oriented Programming, C Programming
Linear Algebra I & II, Ordinary Differential Equations, Introduction to Statistics