Hunter Haglid

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Education

Purdue University, West Lafayette, IN **August 2020 - May 2023**
Bachelor of Science, Computer Science Honors, Mathematics GPA: 3.9

Technical Skills

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

Libraries and Frameworks
Experienced: NumPy, OpenCV, Django, ReactJS
Proficient: Tensorflow, Keras

Experience

Purdue University CAM2 Computer Vision Lab West Lafayette, IN
Research Assistant *May 2021 - Present*
- Currently leading 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++, testing the tracking system's accuracy and robustness
- Presented a poster displaying the team's progress at Purdue's Summer Undergraduate Research Symposium

IEEE Remote-Operated Underwater Vehicle Team West Lafayette, IN
Software Lead *August 2021 - Present*
- Implemented Agile software development methodologies using Jira to manage a team of 11 developers
- Taught intermediate Python topics such as object-oriented programming through a 5-part IEEE workshop

Software Member *September 2020-August 2021*
- Engineered an autonomous control system for an underwater vehicle using OpenCV, Scikit-learn and ROS
- Created a tool for stitching photos of an underwater object into a continuous photomosaic map

Tsapatsaris and Associates Ridgewood, NJ
Engineering Intern *July 2019 - August 2019*
- Automated a biweekly 2-hour process using VBA Scripts in Excel, eliminating hours of manual computation

Projects

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

CO2View - 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
- Migrated 40 years of EPA data to a SQLite database to be quickly accessed using the Django ORM
- Used Javascript to calculate and display a vehicle's percentile through z-scores, adding context to the data

Dash-It Live (1st Place - Purdue 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# using object-oriented programming to simulate indeterminate trusses

Awards & Honors

- 4th Place - MATE Remote Operated Vehicle World Championship (out of 202 teams) August 2021
- Purdue Corporate Partners Program Scholarship April 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

Relevant Coursework

Current: Compilers, Data Mining and Machine Learning, Theory of Computation, Real Analysis
Complete: Data Structures and Algorithms, Analysis of Algorithms, Systems Programming, Computer Architecture Linear Algebra I & II, Differential Equations, Statistics, Numerical Methods, Probability