

Benjamin C. Boardley

805 Hayes Street, West Lafayette, IN 47906 | P: 574-400-3147 | bboardle@purdue.edu

EDUCATION

Purdue University

Bachelor of Science in Computer Engineering

Cumulative GPA: 3.93/4.0

Major GPA: 3.97/4.0

Expected May 2024

Purdue University

Master of Science in Computer Engineering

Expected May 2025

Clubs and activities

IEEE ROV Software Engineering Sub-Lead

WORK EXPERIENCE

Notre Dame Turbo Laboratory – *Engineering Intern*

South Bend, IN

Web development and API integration

Jun 2023 – Present

- Implemented software to communicate with Monday.com's API with GraphQL to automate excel resource visualization
- Created a Graphical User Interface to simplify and better spread a researcher's computational model
- Created a Desktop application with tkinter to help users interact and operate the CFD software Caelus

Skills: Python - JavaScript - HTML – CSS

CAM2 Research Group – *Backend Developer*

West Lafayette, IN

Lead Organizer for the Low Power Computer Vision Competition visit <https://lpcv.ai>

Feb 2023 – Present

- Lead a team of organizers to host large-scale computer vision competition that processed 677 submissions across 60 teams
- Implemented a Referee System to evaluate Semantic Segmentation models on a NVIDIA Jetson Nano
- Created an automated communication and scoring pipeline between a web and evaluation server for live leaderboard rankings

Skills: Python - Shell Scripting - Computer Vision - Pytorch – Leadership

Purdue University – *Teacher's Assistant*

West Lafayette, IN

CS 15900

Jan 2023 – May 2023

- Lead a programming lab section in which I explained programming concepts to students
- Hosted office hours in which I helped guide students on programming assignments

Skills: Leadership – Communication

Relevant Course Work

Data Structure and Algorithms

ECE 368

- Used creativity and problem solving so solve complex problems in a time and space efficient manner using data structures

Skills: Creativity - Problem Solving - C

Intro to Computer and Network Security

ECE 404

- Implemented and learned about various Security protocols using AES, 3DES, Public Key Cryptography, and Firewalls

Skills: System Security - Cryptography

Data Science in Python

ECE 20875

- Researched data science libraries such as numpy, sklearn, matplotlib and keras to solve complex data science problems

Skills: Independent learning – Python - Data science

Software Engineering Tools

ECE 30862

- Learned how to use important software development tools and frameworks such as Flask, Electron, GCP, SQL and Jira.

Skills: Software Engineering

ADDITIONAL

Languages: Python, C, JavaScript, HTML, CSS, SQL, Shell

Libraries and Frameworks: Django, React, pytorch, numpy, tensorflow, matplotlib, sklearn, keras

Skills: Full Stack development, Machine Learning, Computer Vision, Computer Security, Computer Networks