

Grady Arnold

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EDUCATION

Purdue University – GPA 3.22	West Lafayette, IN	08/2020 – 05/2024
<ul style="list-style-type: none">▫ Bachelor of Science in Computer Engineering▫ Trustees Scholarship		

WORK EXPERIENCE

Autonomous Motorsports Purdue	Team Lead	West Lafayette, IN	08/2020 – 12/2021
<ul style="list-style-type: none">▫ Led a design team of students to design and test parts on the self-driving go cart▫ Utilized SolidWorks CAD for design of sections on the team vehicle▫ Prototyped using 3D printing and CNC machines to manufacture components used on cart			
AFRL- Unmanned Aerial Systems	Team Member	West Lafayette, IN	01/2021 – 05/2021
<ul style="list-style-type: none">▫ Wrote and tested C++ code for synchronized drone control▫ Edited Python computer vision code with OpenCV to optimize object detection in Python▫ Completed projects using Linux by utilizing C backend code and documentation			
Purdue Imaging and Printing	Team Member	West Lafayette, IN	08/2020 – 12/2020
<ul style="list-style-type: none">▫ Collaborated with team members to optimize healthcare imaging software▫ Utilized deep learning scripts to analyze and interpret computer inputs▫ Researched and wrote python code to improve imaging algorithms			

PROJECT EXPERIENCE

ELO Ranking League App- Backend
<ul style="list-style-type: none">▫ Built app backend using a Flask RESTful API with controller service design pattern▫ Managed a PostgreSQL database using object relational mapping with Flask-SQLAlchemy▫ Displays frontend with React Native for cross platform mobile deployment▫ Implements login system from stored hashed passwords using Flask JSON web tokens
Twitter/News Sentiment Analysis Web App
<ul style="list-style-type: none">▫ Built app backend with Spring Boot RESTful API▫ Consumes Twitter and News APIs to return data to frontend▫ Processes returned language with Sentiment Analysis in JS to return a sentiment value▫ Implement single page application with React using modern features such as hooks and context

LEADERSHIP EXPERIENCE

Eagle Scout	Knoxville, TN	09/2016 – 12/2019
<ul style="list-style-type: none">▫ Planned and researched overnight outings for large numbers of people▫ Mentored younger scouts to learn new skills and complete requirements▫ Completed an Eagle Scout project involving design, construction, and team and budget management		

RELEVANT SKILLS

Programming Languages:	Python, Java, JavaScript, SQL
Technologies/Other:	Linux, Git, REST APIs, Flask, Node.js
General:	Problem solving, analytical skills, communication, teamwork, conflict resolution, leadership