Trevor Antle

(502) 338-0819 | antletrevor5@gmail.com | LinkedIn | GitHub

Education

Purdue University Dec 2025
B.S. Computer Engineering *GPA: 3.39/4.0*
Relevant Coursework: Data Structures and Algorithms, Advanced C Programming, Python for Data Science

Experience

Software Engineering Intern Starting Aug 2024
Humana

Undergraduate Teaching Assistant (ECE 20875) Starting Aug 2024
Purdue University

Software Engineering Intern May 2024 – Aug 2024
Humana

- Developed a Django app to automate compliance validation, improving accuracy by 15% and handling efficiency
- Researched AI use cases to identify automation opportunities and enhance corporate processes
- Implemented PDF to CSV conversion with pandas and PDFPlumber, achieving 85% accuracy in data generation
- Designed data validation methods with Regex and nltk, boosting runtime efficiency by 30%
- Built a Django app with an OpenAI-based chatbot for real-time medication info, enhancing user experience and reducing support queries

Software Engineering Intern May 2023 – Aug 2023
Humana

- Designed a responsive front-end interface for a customer service chat application, reducing customer service representative handle time by 25%
- Collaborated with cross-functional teams to integrate AI solutions and company APIs, projected to save $500,000 per data element annually through increased efficiency and accuracy
- Wrote SQL queries to extract and clean data, improving accuracy and integration efficiency

Projects

Personalized Entertainment Recommendation System May 2024 - present

- Built a content-based recommendation system in Python using TF-IDF
- Designed a Flask-based interface for users to input favorite movies and receive top recommendations

Catapult AI Hackathon March 2024

- Built a Flask backend to integrate user inputs, optimizing match accuracy through K-means clustering
- Engineered server-side OpenAI API calls, generating personalized conversation starters with a 90% match rating

Disease Classification Neural Network Jan 2024 - May 2024

- Developed a machine learning model using pandas and scikit-learn to predict heart disease with 80% accuracy
- Implemented Logistic Regression models to achieve high-accuracy predictions

Stock Market Machine Learning Nov 2023 - May 2024

- Leveraged Python for machine learning to conduct comprehensive stock market data analysis
- Conducted data analysis and visualizations using distribution plots, box plots, and correlation heat maps

Technical Skills

Programming Languages: Python, C, C++, JavaScript, SQL, HTML, CSS, MATLAB
Frameworks & Libraries: Django, Flask, pandas, NumPy, PyTorch, Matplotlib
Tools & Technologies: Git, AWS, SQLite, Bash, System Verilog, Salesforce, VPython