Trevor Antle

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Education

B.S. Computer Engineering Dec 2025

Purdue University - West Lafayette, IN *GPA: 3.39/4.0*

- **Relevant Coursework:** Data Structures, Python for Data Science, Object-Oriented Programming
- **Concentration:** Artificial Intelligence / Machine Learning

Experience

Software Engineering Intern May 2024 – present

Humana

- Developed a Django-based compliance validation automation tool, improving accuracy by 15%
- Explored and identified AI automation opportunities, enhancing corporate processes and reducing manual effort
- Implemented a PDF to CSV conversion pipeline using pandas and PDFPlumber, achieving 85% accuracy in data extraction
- Enhanced data validation processes with Regex and nltk, leading to a 30% boost in runtime efficiency
- Built a Django app featuring an OpenAI-powered chatbot, providing real-time medication information and reducing support queries

Undergraduate Teaching Assistant – Python for Data Science Aug 2024 – present

Purdue University Elmore Family School of Electrical and Computer Engineering

- Introduce students to best programming practices and foundational machine learning concepts
- Facilitate office hour sessions and provide feedback on assignments, enhancing understanding and performance

Software Engineering Intern May 2023 – Aug 2023

Humana

- Designed and implemented a responsive front-end for a customer service chat application, reducing handle time by 25%
- Collaborated with cross-functional teams to integrate AI solutions and company APIs, leading to an estimated annual savings of $500,000 per data element
- Authored SQL queries for data extraction and cleaning, improving data accuracy and integration efficiency

Projects

Personalized Entertainment Recommendation System May 2024 – Sep 2024

- Developed a content-based recommendation engine using TF-IDF in Python to suggest personalized entertainment options
- Built a Flask-based user interface to collect input and display top recommendations, enhancing user engagement

Disease Classification Neural Network Jan 2024 – May 2024

- Constructed a machine learning model using pandas and scikit-learn to predict heart disease with 80% accuracy
- Employed logistic regression and other algorithms to optimize prediction accuracy and model performance

Catapult AI Hackathon – Intelligent Matching System Mar 2024

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

Stock Market Prediction Nov 2023 – May 2024

- Utilized Python and machine learning techniques to analyze stock market data and predict future trends
- Performed data visualization using distribution plots, box plots, and correlation heat maps to uncover insights

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, SystemVerilog, Salesforce, VPython