

SHIVAANSH DHINGRA

Columbia, Maryland

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Education

Wilde Lake High School

4.78 GPA

Sep. 2021 – May 2025

Columbia, Maryland

Relevant Coursework

- AP Computer Science A
- AP Computer Science P
- Cyber Security
- AP Calculus AB
- AP Calculus BC

Experience

Datafy Systems

Feb 2024 – Present

Data Analyst

Columbia, Maryland

- Optimized SQL Database Performance: Designed and maintained SQL databases, improving query efficiency by indexing and optimizing stored procedures, reducing data retrieval time by 40%.
- Automated Data Processing Pipelines: Developed Python scripts to automate data extraction, transformation, and loading (ETL) on Linux servers, reducing manual workload and minimizing errors.
- Built Interactive Data Dashboards: Utilized visualization tools to create real-time dashboards, enabling data-driven decision-making and improving reporting accuracy for stakeholders.

Cybersecurity Class

September 2023 – May 2024

Student

Columbia, Maryland

- Conducted Real-Time Security Audits: Performed vulnerability assessments on live systems, identifying and analyzing potential threats using industry-standard cybersecurity tools.
- Implemented Defensive Security Measures: Assisted in configuring firewalls, intrusion detection systems, and access controls to enhance network security and mitigate risks.
- Analyzed Cyber Threats & Incident Response: Investigated simulated attacks, documented threat vectors, and contributed to response strategies to strengthen system resilience.

Projects

Study Group App - Full Stack | *Node.js, React(JSX), MySQL*

Jan 2025 - Feb 2025

- Designed an interactive platform where students can find and join study groups, featuring real-time video conferencing, chat, and a shared task board for collaborative learning.
- Implemented role-based group management, allowing members to assign tasks, share flashcards and notes, and track individual and group progress.
- Developed a secure user authentication system with JWT-based authentication and role-based access control, ensuring data privacy and controlled group interactions.

Adaptive AI Snake Game | *Python, PyTorch, PyGame*

February 2025

- Developed a BFS-driven AI bot that achieves near-perfect gameplay (scores of 150-175) by dynamically navigating the board to find apples while avoiding obstacles.
- Trained a Deep Q-Network (DQN) model with a custom two-layer neural network, enabling adaptive, human-like decision-making in Snake.
- Designed a performance benchmarking system to compare the DQN model, BFS bot, and a human simulation, analyzing learning efficiency and gameplay strategy.

AI Powered Algorithmic Trader | *Python, Streamlit, Sci-Kit Learn, TensorFlow, NLTK*

January 2025

- Engineered an automated trading bot that leveraged technical analysis indicators (RSI strength, 2-week vs. 5-week trends, moving averages) to identify profitable short-term and long-term trading opportunities
- Developed a sentiment analysis model using NLTK and TensorFlow, analyzing real-time news data via NEWS API to gauge market sentiment and adjust trading strategies dynamically.
- Built a real-time trading dashboard with Streamlit, integrating Alpaca API for execution and Yahoo Finance API for live stock data, providing comprehensive trade insights and decision-making analytics.

Technical Skills

Languages: Python, Javascript, R, HTML/CSS, SQL

Developer Tools: Git/Github, Docker, Jupyter Notebooks, AWS(EC2-Instance), Microsoft Azure (Linux VM)

Technologies/Frameworks: TensorFlow, PyTorch, Sci-kit - Learn, React, MySQL