

ANTHONY LU

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EDUCATION

New York University

New York, NY

Computer and Data Science - GPA 3.8/4

January 2024 - May 2027

Relevant Coursework: Deep Learning & LLMs, Agile & DevOps, Machine Learning, Parallel Computing, Data Science, Data Structures, Algorithms, Computer Organization, Linear Algebra, Probability & Statistics.

SKILLS

Languages: Python, SQL, JavaScript, Java, C/C++, HTML/CSS, Assembly
Tools/Frameworks: AWS (ECS, EC2), Firebase, Git, Docker, React, FastAPI, LangChain, GCP
ML/Data: PyTorch, scikit-learn, Pandas, NumPy, OpenCV, HuggingFace, SciPy, Matplotlib

PROJECTS

Openbook CLI - Private Research Toolkit

New York, NY

Personal Project

November 2025

- Built a **TypeScript** CLI that indexes content into a private, on-device vector store for **sub-second** retrieval.
- Orchestrated chat/query workflows across **Ollama** and cloud providers with configurable prompts, model routing, web search, and offline-first embeddings to keep docs on-device for privacy and low-latency queries.

Scout - AI Photography Assistant

New York, NY

Personal Project

September 2025

- Built an interactive mapping app with location search, annotation tools, and camera controls using **ReactJS**.
- Developed **RESTful API** backend with **FastAPI**, implementing file uploading, image processing, and AI integration with error handling and logging.
- Integrated **Google GenAI** for image generation using map annotations and camera settings for prompting.

Formula 1 Prediction Dashboard

Austin, TX

Personal Project

June 2025

- Developed a dashboard for users to make predictions and calculate proposition betting odds using **Streamlit**.
- Engineered 50+ predictive features from 7 seasons of weather and telemetry data to forecast race results.
- Achieved an AUC of **0.72** using a hyperparameter tuned **XGBoost** pipeline with **time-series** cross-validation.
- Containerized using **Docker**, and deployed using **AWS EC2** for scalable hosting.

WORK EXPERIENCE

Best Buy

Austin, TX

Sales Associate

October 2023 - January 2024

- Collaborated with senior sales staff to design and execute sales strategies for tech products and memberships.
- Led training for 3+ new team members on customer engagement and sales techniques.
- Leveraged proprietary inventory and sales tools to analyze data from multiple stores and optimize sales strategies.

ACTIVITIES

Washington Square News

New York, NY

Staff Photographer

January 2024 - December 2024

- Published and photographed campus and event images in NYU's student newspaper.

Automated Lunar Rover

New York, NY

Team Lead

January 2024 - May 2024

- Led a 3-member engineering team to design and prototype an autonomous robot to traverse lunar terrain.
- Oversaw task delegation, code and design reviews, and technical presentations to faculty panel.