Austin Zhang

(717) 962-8811
23azhang@gmail.com

Personal Statement

A computer science student with an interest in system architecture and machine learning. I thrive in both independent and collaborative environments and am always looking for opportunities to learn, grow, and contribute to meaningful projects.

Education

Georgia Institute of Technology　　　　　　　　　　　　　　Atlanta, GA
Bachelor of Science, Computer Science　　　　　　　　　　Expected May 2027
- **Honors:** Dean's List, Fall 2024, Spring 2025
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Systems & Networks, Algorithm Design & Analysis, Data Structures & Algorithms

Project Experience

Market Regime Prediction (Data Engineer)
Machine Learning Project　　　　　　　　　September 2025 - November 2025

- Processed and cleaned 100M+ time-series data points from 20+ years of historical stock and macroeconomic data using Python and Pandas.
- Implemented and compared ML models including, GMM, Hierarchical Clustering, LSTM, and logistic regression to classify and predict market regimes.
- Evaluated performance via Silhouette Score, Davies–Bouldin Index, RMSE, and directional accuracy (58–62%) on test data, surpassing random baseline.
- Built using frameworks (Scikit and PyTorch) and custom implemented methods.

Vertically Integrated Project: Experimental Flights (Team Lead)
College of Computing, Georgia Tech　　　　　　　　　　　Jan 2025 - Present

- Assembled and tested a custom UAV for autonomous last-mile package delivery
- Optimized propulsion, frame, and payload systems, reducing total airframe mass by 25% and increasing energy efficiency by 35% through iterative hardware testing
- Integrated cloud-based data synchronization using AWS IoT Core and S3, enabling remote mission uploads and telemetry logging via a secure REST API

MoneyParce – Finance App (Full Stack Developer)
Team Project　　　　　　　　　　　　　　　　　March 2025 - May 2025

- Built a finance tracker app with secure auth, budget tracking, and spending insights using Django, React, and MySQL
- Integrated Plaid for transaction sync and ChatGPT for personalized spending tips
- Designed responsive UI and RESTful APIs; planned and worked with an agile and SCRUM hybrid process, delivering 100% of sprint goals across 2 cycles.

Work Experience

Welocalize – SQR | Remote　　　　　　　　　　　　　　Oct 2024 - May 2025
- Leveraged web research, domain knowledge, and content evaluation frameworks to generate high-quality structured data for AI model training and search optimization.
- Maintained 90%+ precision across relevance, true/false, and graded tasks while adhering to annotation guidelines and strict latency requirements.

Fujihana - Assistant Manager | York, PA　　　　　　　June 2021 - Aug 2024
- Managed high-volume restaurant operations with a team of 10+ employees, optimizing workflow and ensuring excellent customer satisfaction
- Streamlined the recruitment, conducting interviews and onboarding for 10+ new hires

Skills

Languages: Python, Java, Kotlin, JavaScript, SQL, HTML/CSS

Machine Learning Libraries: Pytorch, Scikit-Learn, NumPy, Pandas

Frameworks/Tools: Django, Android SDK, Node.js, Docker, Git, MySQL, PyTorch

Cloud/Workflow: AWS (S3, IoT Core), REST APIs, Agile, SCRUM, CI/CD