

Joshua Qian

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EDUCATION

Emory University

Bachelor of Applied Science, Computer Science and Mathematics with Business Minor

May 2025

Cumulative GPA: 3.6/4.0

Relevant Courses: Data Structures and Algorithms, Computer Concepts and Applications, Calculus II, Calculus III, Linear Algebra, Computer Architecture/Machine Programming, Linear Optimization, Statistics, AI, Database Systems, Machine Learning, Numerical Analysis, Deep Learning

Technical Skills

- Certifications: AWS Certified Cloud Practitioner, Udemy Web Development, Akuna Capital Options 101
- Programming Languages: Java, Python, SQL, HTML, JavaScript, C, Assembly, CSS
- Technologies: AWS, Microsoft Office
- Operating Systems: Windows, Linux
- Other: Object Oriented Programming, PostgreSQL, GitHub, Solver, NLP, Web Scraping

Projects

- iTunes Playlist (Java): Utilized object-oriented programming to create a playlist with episode objects and implement necessary functions.
- Pacman (Python): Implemented AI search algorithms in Pacman game to find most desirable paths
- Tall Trucks (Java): Used Hash Tables and implemented Dijkstra's algorithm to find optimal paths given a set of constraints
- Blackjack (Java, JavaScript): Created a blackjack game from scratch
- ArtistDB (SQL): Designed a relational database to connect artists, songs, albums, record labels, collaborators, etc.
- ArtistBrowser (Java): Created implementation for JDBC and designed queries to search through ArtistDB

WORK EXPERIENCE

Emory Goizueta Business School

Research Assistant for Dr. David Schweidel

Dec 2023 - Present

- Scrape data from Instagram posts and convert to embedding space to determine features for virality
- Use embeddings as inputs for generative models to create viral social media posts

Algory Capital

Quantitative Derivatives Analyst

Sept 2023 - Present

- Build mathematical models to guide our management of \$100k+ of the Emory endowment
- Study options trading to improve investment strategies and capitalize on market volatility

TCL Industries

AI/Machine Learning Intern

June 2023 – July 2023

- Built a web scraper to retrieve product reviews from an online marketplace.
- Built an LSTM model and trained it to perform a sentiment analysis on product reviews.

ADDITIONAL INFORMATION

Honors & Awards: All-American Scholar, Columbus Dispatch Top Male Scholar-Athlete, AJGA Scholastic All-American, Academic Varsity, PING All-Region Team

Interests: Golf, CodeEmory, Chess, Table Tennis Club, Ohio State Athletics, Country Music, Travel