Joshua Gulizia

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EDUCATION

University of Houston　　　　　　　　　　　　　　　　　　　　　　　　　　　Houston, TX
Bachelor of Science in Computer Science, Minor in Mathematics　　　　　　　*Aug. 2023 – May 2026*
Relevant Coursework: Machine Learning, Data Science, Database Systems, Data Structures, Statistics

EXPERIENCE

Data Science Intern, Sun & Ski Sports, Houston, TX　　　　　　　　　　Aug. 2025 – Present

- Analyzed **1.2M+ rows** of sales data using **PostgreSQL** and **pandas** across 40 retail locations
- Created 5 **Power BI** dashboards for performance metricswa, reducing weekly reporting time by **80%**
- Streamlined data cleaning using Python, resolving 1,700+ data inconsistencies and anomalies

QuickBooks Bookkeeper, Reel It Inn Rentals, Freeport, TX　　　　　　Apr. 2023 – Jul. 2025

- Managed **$60K yearly revenue** processing 50+ monthly transactions in **QuickBooks**
- Maintained financial records with **99% accuracy** for accounts payable and receivable
- Generated monthly financial reports to track revenue trends and inform management decisions

PROJECTS

ML-Powered Algorithmic Trading Platform　　　　　　　　　　　　　　Jul. 2025 – Present
Python, PyTorch, React, MySQL, Docker

- Built ML pipeline with **LSTM** and ensemble models processing **500K+ daily volume** stocks
- Developed distributable trading tool with **60% confidence thresholds** and real-time WebSocket data streams
- Engineered microservice architecture using **FastAPI**, **MySQL**, **Redis**, and **Docker** containerization to achieve sub-80ms average response time

StockScope - Real-Time Stock Monitoring Platform　　　　　　　　　　Feb. 2025 – Jun. 2025
React, Node.js, PostgreSQL, AWS | GitHub

- Built stock screening application tracking **500+ stocks** with real-time price updates and alerts
- Implemented **WebSocket** data pipeline processing 500 API calls per second with **sub-100ms** response times
- Deployed backend on **AWS RDS** with optimized PostgreSQL queries for historical data analysis
- Integrated user authentication with **bcrypt** password hashing and JWT tokens for secure account management

Cougar Library Management System　　　　　　　　　　　　　　　　　Jan. 2025 – May. 2025
React, Node.js, MySQL | GitHub

- Built library management platform with **role-based authentication** for 3 user types
- Implemented inventory system handling borrowing, hold processing, and automated fine calculations
- Developed secure **REST API** with Express.js and MySQL database with transaction support
- Created responsive React interface with dynamic search, filtering, and real-time notifications

LEADERSHIP

Operations Officer, Code Coogs, Houston, TX　　　　　　　　　　　　　Jan. 2025 – Present

- Conduct technical workshops teaching full-stack development to **50+ students** per semester
- Collaborate with officers to coordinate workshop scheduling and curriculum development
- Mentor students on programming fundamentals, project development, and industry best practices

SKILLS

- **Certifications:** IBM Data Science Professional Certificate (Machine Learning, SQL, Data Visualization)
- **Programming Languages:** Python, R, JavaScript, TypeScript, C/C++, Swift, SQL, HTML/CSS
- **Data Analysis & ML:** pandas, NumPy, scikit-learn, PyTorch, XGBoost, LSTM
- **Databases & Cloud:** PostgreSQL, MySQL, Redis, AWS RDS
- **Development Tools:** Git/GitHub, Docker, Power BI, Excel, FastAPI, Node.js, React