

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

IBM Data Science Professional Certificate – Machine Learning, SQL, Data Visualization, Predictive Modeling

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 metrics, reducing weekly reporting time by **80%**
- Performed data cleaning and transformation using **Python** to support strategic decision-making

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

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
- Created responsive React dashboard with TypeScript and Chart.js for technical indicator visualization

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

- **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