

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

Aug. 2025 – Present

Sun & Ski Sports

Houston, TX

- Analyzed **10M+** rows of sales data using **PostgreSQL** and **pandas** across **40 retail locations**
- Built automated data pipelines with **Prefect**, reducing manual processing from **5 hours to 1 hour** weekly
- Developed store-specific sales forecast models using **XGBoost**, achieving **85% accuracy** (15% MAPE)
- Leveraged **AI** to automate development workflows, accelerating project completion by **80%**

QuickBooks Bookkeeper

Apr. 2023 – Jul. 2025

Reel It Inn Rentals

Freeport, TX

- Managed **\$30K 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 | *Python, PyTorch, React, MySQL, Docker*

Jul. 2025 – Present

- Building 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 times

StockScope - Real-Time Stock Monitoring Platform | *React, Node.js, AWS*

Feb. 2025 – Jun. 2025

- 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 | *React, Node.js, MySQL*

Jan. 2025 – May 2025

- 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

Jan. 2025 – Present

Code Coogs

Houston, TX

- Conduct technical workshops teaching full-stack development to **200+ students** per semester
- Collaborate with other officers to coordinate workshop scheduling and curriculum development
- Mentor students on programming fundamentals, project development, and industry best practices

TECHNICAL SKILLS

Languages: Python, R, JavaScript, TypeScript, C/C++, Swift, SQL, HTML/CSS

Data Analysis & ML: pandas, Apache Spark, NumPy, scikit-learn, PyTorch, XGBoost, LSTM, MLflow

Databases & Cloud: PostgreSQL, MySQL, Redis, AWS RDS

Development Tools: Git/GitHub, Docker, Prefect, Power BI, Excel, FastAPI, Node.js, React