

# 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**
- Created **5 Power BI** dashboards for performance metrics, reducing weekly reporting time by **80%**
- Streamlined data cleaning using Python, resolving **1,700+** data inconsistencies and anomalies

### QuickBooks Bookkeeper

Apr. 2023 – Jul. 2025

*Reel It Inn Rentals*

Freeport, TX

- 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 | *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

**Certifications:** IBM Data Science Professional Certificate (Machine Learning, SQL, Data Visualization)

**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