

Joshua Gulizia

jgulizia1205@gmail.com · (832) 221-8301 · LinkedIn Profile

EDUCATION

University of Houston, Houston, TX

Bachelor of Science in Computer Science, Math Minor

Fall 2023 – Present

Expected Graduation: Spring 2026

- Relevant Coursework: Databases, Data Science, Machine Learning, Operating Systems, and Data Structures, Algorithms

EXPERIENCE

Data Science Intern, Sun & Ski Sports, Houston, TX

August 2025 – Present

- Creating management dashboards in **Excel** for multi-location retail operations to visualize performance metrics
- Performing data analysis using **PostgreSQL** and **pandas** to pull info from sales, inventory, and customer data
- Collaborating with cross-functional teams to deliver data-driven solutions for strategic decision-making

QuickBooks Bookkeeper, Reel It Inn Rentals, Freeport, TX

Apr 2023 – July 2025

- Manage invoice creation and processing for rental equipment transactions using **QuickBooks** software
- Process receipts and maintain accurate records for accounts payable and accounts receivable
- Coordinate with management to ensure timely payment processing and financial record accuracy

PROJECTS

ML-Powered Algorithmic Trading Platform *Python, React, MySQL, Docker, ML*

- Building ML pipeline using **LSTM** and **XGBoost** for market making strategies with automated distribution
- Developing a distributable ML trading tool with **license management** and **hardware authentication**
- Engineering microservice architecture with **FastAPI**, **MySQL**, **Redis**, and **Docker** containerization
- Creating **React** dashboard for risk management configuration and real-time performance monitoring

StockScope- Real-Time Stock Monitoring Platform *React, Node.js, MySQL, AWS RDS, WebSocket GitHub*

- Built stock screening application with real-time price updates, alerts, and historical data visualization
- Implemented **WebSocket** data pipelines using **Polygon.io** APIs with automatic backfilling and caching
- Created responsive React dashboard with dark mode and real-time updates via Socket.io
- Engineered backend with **AWS RDS** connectivity, connection pooling, and retry mechanisms

Cougar Library Management System *React, Node.js, MySQL*

GitHub

- Built library management platform with **role-based authentication** for students, librarians, and admins
- Implemented inventory system handling borrowing, hold processing, fine calculations, and maintenance
- Developed secure authentication with **session tokens** and automated notification system
- 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 with React, Node.js, Swift, and databases
- 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, C/C++, Swift, SQL, HTML/CSS
- **Frameworks & Libraries:** React, Node.js, FastAPI, Pandas
- **Databases & Cloud:** PostgreSQL, MySQL, AWS RDS
- **Development Tools:** Git/GitHub, Docker, Excel, API Integration