

# Joshua Gulizia

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## EDUCATION

<b>University of Houston</b> <i>Bachelor of Science in Computer Science, Minor in Mathematics</i> Relevant Coursework: Machine Learning, Data Science, Database Systems, Data Structures, Statistics	Houston, TX Aug. 2023 – May 2026
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## EXPERIENCE

<b>Data Science Intern</b> <i>Sun &amp; Ski Sports</i> <ul style="list-style-type: none"><li>Analyzed <b>10M+</b> rows of sales data using <b>PostgreSQL</b> and <b>pandas</b> across <b>40 retail locations</b></li><li>Built automated data pipelines with <b>Prefect</b>, reducing manual processing from <b>5 hours to 1 hour</b> weekly</li><li>Developed store-specific sales forecast models using <b>XGBoost</b>, achieving <b>85% accuracy</b> (15% MAPE)</li><li>Leveraged <b>AI</b> to automate development workflows, accelerating project completion by <b>80%</b></li></ul>	Aug. 2025 – Present Houston, TX
<b>QuickBooks Bookkeeper</b> <i>Reel It Inn Rentals</i> <ul style="list-style-type: none"><li>Managed <b>\$30K yearly revenue</b> processing <b>50+</b> monthly transactions in <b>QuickBooks</b></li><li>Maintained financial records with <b>99% accuracy</b> for accounts payable and receivable</li><li>Generated monthly financial reports to track revenue trends and inform management decisions</li></ul>	Apr. 2023 – Jul. 2025 Freeport, TX

## PROJECTS

<b>ML-Powered Algorithmic Trading Platform</b>   <i>Python, PyTorch, React, MySQL, Docker</i> <ul style="list-style-type: none"><li>Building ML pipeline with <b>LSTM</b> and ensemble models processing <b>500K+ daily volume</b> stocks</li><li>Developed distributable trading tool with <b>60% confidence thresholds</b> and real-time WebSocket data streams</li><li>Engineered microservice architecture using <b>FastAPI</b>, <b>MySQL</b>, <b>Redis</b>, and <b>Docker</b> containerization to achieve sub-80ms average response times</li></ul>	Jul. 2025 – Present
<b>StockScope - Real-Time Stock Monitoring Platform</b>   <i>React, Node.js, AWS</i> <ul style="list-style-type: none"><li>Built stock screening application tracking <b>500+ stocks</b> with real-time price updates and alerts</li><li>Implemented <b>WebSocket</b> data pipeline processing 500 API calls per second with <b>sub-100ms</b> response times</li><li>Deployed backend on <b>AWS RDS</b> with optimized PostgreSQL queries for historical data analysis</li><li>Integrated user authentication with <b>bcrypt</b> password hashing and JWT tokens for secure account management</li></ul>	Feb. 2025 – Jun. 2025
<b>Cougar Library Management System</b>   <i>React, Node.js, MySQL</i> <ul style="list-style-type: none"><li>Built library management platform with <b>role-based authentication</b> for 3 user types</li><li>Implemented inventory system handling borrowing, hold processing, and automated fine calculations</li><li>Developed secure <b>REST API</b> with Express.js and MySQL database with transaction support</li><li>Created responsive React interface with dynamic search, filtering, and real-time notifications</li></ul>	Jan. 2025 – May 2025

## LEADERSHIP

<b>Operations Officer</b> <i>Code Coogs</i> <ul style="list-style-type: none"><li>Conduct technical workshops teaching full-stack development to <b>200+ students</b> per semester</li><li>Collaborate with other officers to coordinate workshop scheduling and curriculum development</li><li>Mentor students on programming fundamentals, project development, and industry best practices</li></ul>	Jan. 2025 – Present Houston, TX
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## 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