

JOSHUA GUTIERREZ

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PROFESSIONAL SUMMARY

MS Data Science candidate (Boston University, Dec 2026) and Software Engineer with a cross-disciplinary foundation spanning healthcare operations, full-stack development, and predictive modeling. Built data intuition at UCLA Health -- where Tableau-driven analysis cut patient transport wait times by 31% -- then formally transitioned into software engineering (Coding Temple, 2022) before focusing on data science at scale. Enrolled in BU's MS DS program in 2024 while actively applying theory through demand forecasting systems, player analytics tools, and K-12 data science instruction.

TECHNICAL SKILLS

- **Data Science & Modeling:** Python (Pandas, NumPy, Scikit-learn, TensorFlow), R, Machine Learning (LightGBM, Regression, Clustering), Statistical Analysis, A/B Testing, Feature Engineering
- **Engineering & Deployment:** SQL (PostgreSQL), Docker, RESTful APIs, Flask, Ruby on Rails, Node.js, Git/GitHub, CI/CD, AWS
- **Frontend & Visualization:** JavaScript, TypeScript, React, Next.js, Redux, React Native, Streamlit, Tableau, Plotly, Matplotlib, Seaborn, HTML/CSS
- **Data Infrastructure:** Firebase/Firestore, NoSQL, GraphQL, Jupyter Notebooks, Beautiful Soup, Excel (Financial Modeling, Pivot Tables)
- **Emerging & Workflow:** Generative AI fundamentals, LLM API integration, Agile (IBM Certified), Data Governance, Technical Documentation

TECHNICAL PROJECTS

Logi-Flow Japan — Logistics Demand Forecasting System

- Built a production-ready demand forecasting system predicting logistics volume from seasonal trends and spatial features.
- Engineered a multi-stage pipeline: Data Ingestion (CSV/Parquet), Feature Engineering (temporal/categorical encoding), and LightGBM model training.
- Built an interactive Streamlit/Plotly dashboard for route optimization and stakeholder scenario stress-testing.
- Containerized with Docker for consistent cross-environment deployment.

Player Formations Analytics — Real-Time Sports Tactical Visualization

- Built a real-time visualization tool translating raw coordinate data into actionable tactical sports insights.
- Developed a Python/Flask backend processing player positioning data with Redux state management for high-frequency interactive updates.
- Proof-of-concept for automated tactical reporting, reducing manual video-to-data analysis time for coaching staff.

PROFESSIONAL EXPERIENCE

Gutierrez Global Sports (Family-Owned Sports Agency) — Los Angeles, CA

Operations & Logistics Analyst | Jun 2025 – Present

- Coordinate international logistics for athletic teams, managing cross-border schedules and travel data to optimize execution across global scouting tournaments.
- Manage financial data workflows -- oversee accounts payable/receivable and reconcile complex transactions to deliver accurate cash flow reporting for executive leadership.

- Analyze fan engagement and attendance data to identify high-value customer segments, reducing reporting overhead by 20%.

Coding Minds — Arcadia, CA

Data Science Instructor | Mar 2025 – Jun 2025

- Designed and delivered a Data Science curriculum for K-12 students covering data analysis pipelines, Python, Pandas, NumPy, and ML fundamentals.
- Developed machine learning project modules guiding students through practical predictive modeling and pattern recognition applications.
- Conducted quantitative analysis of student performance metrics to iteratively refine course materials and improve learning outcomes.

Discovery Partners Institute — Chicago, IL

Software Engineer | Feb 2024 – May 2024

- Engineered an automated data ingestion pipeline using Python and BeautifulSoup to scrape and aggregate high-volume political stock trading data, reducing manual processing time by 50%.
- Architected a RESTful API backend in Ruby on Rails to serve processed datasets to cross-functional stakeholders.
- Implemented role-based access controls using the Pundit framework to manage permissions and protect sensitive user data.

Atomic — Los Angeles, CA

React JavaScript Developer | Jun 2023 – Dec 2023

- Resolved performance bottlenecks through code optimization and refactoring, achieving a 30% reduction in application load times.
- Redesigned onboarding flows using data-driven UI improvements, resulting in a 25% decrease in bounce rates and 15% increase in user retention.

UCLA Health — Los Angeles, CA

Lead Patient Transport Tech | Jul 2016 – Feb 2022

- Analyzed operational workflows using Tableau and Epic Systems, reducing call acknowledgment times by 31% (9:00 → 6:10 min) and exceeding departmental KPI targets.
- Designed a statistical pilot program for ER resource allocation, establishing new standard protocols that improved hospital-wide efficiency by 20%.
- Visualized operational performance patterns that informed a strategic team restructuring, translating raw workflow data into executive-level actionable insights.

EDUCATION

Boston University — Boston, MA

Master of Science in Data Science | Enrolled 2024, Expected Dec 2026

Relevant Coursework: Machine Learning, Data Mining, Statistical Analysis, Python for Data Science

California State University, Los Angeles — Los Angeles, CA

Bachelor of Arts, English | Jun 2021

Specialized in technical writing and scientific communication; directly applied in translating data findings for non-technical stakeholders.

Coding Temple — Chicago, IL

Software Engineering Certificate | May 2022

CERTIFICATIONS

Meta Data Analyst Professional Certificate — Coursera / Meta | Sep 2024

Python for Data Science, AI & Development — IBM / Coursera | Oct 2024