Lazaro Martull

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EDUCATION

University of Houston – Clear Lake, M.S. in Data Science, GPA: 3.7 / 4.0   *Aug 2024 - December 2025*
Relevant Coursework: Data Visualization, Regression, SQL/Relational Databases, Python ETL, AI, Applied Machine Learning

University of Houston – Clear Lake, B.S. in Management Information Systems, GPA: 3.6 / 4.0   *Aug 2022 - May 2024*
Relevant Coursework: Database Systems (SQL), Business Analytics & Visualization, App Dev. (Python, JavaScript/HTML/CSS)
Member: Pathway to STEM Careers, Data Science Club, Student Government, Project ODY-C

TECHNICAL SKILLS

Programming & Analytics: Python, SQL, R, Java, C#, JavaScript • Excel (PivotTables, Power Query), Power BI, Tableau • Data Analysis, EDA, KPI Dashboards, Regression, Classification, Artificial Intelligence, Data Storytelling
Data & Tools: pandas, NumPy, scikit-learn, Jupyter • ETL, data cleaning, joins, feature prep • SQL (joins, CTEs, normalization), MongoDB • Azure, OCI • Git, Flask, LangChain, OpenAI API • English, Spanish

WORK EXPERIENCES

Space Center Houston (NASA Johnson Space Center)   **Houston, TX**
Technical Operations Assistant | Excel, Data Tracking, Reporting, Hardware & Software Support   *March 2025 - Present*
- Recorded and validated guest-flow data for 300K+ visitors across VR, simulator, and theater exhibits; compiled daily data reports
- Monitored throughput, wait times, and capacity across 10+ attractions; identified peak-hour trends that improved scheduling ~15%
- Logged and tracked hardware and software incidents with technical teams to minimize downtime and maintain performance
- Built and maintained Excel trackers and standardized checklists, improving data accuracy and consistency for weekly KPI reviews

SuperIntro   **Houston, TX**
Data Science & Software Engineer Intern | Python, Flask/Express, OpenAI/LangChain, MongoDB   *Jan 2025 – May 2025*
- Shipped 10+ REST endpoints (Flask/Express) for data and messaging; wrote API docs and deployment diagrams for faster CI/CD
- Built LLM pipelines (OpenAI + LangChain with MongoDB/Pinecone) for context-aware responses, cutting latency ~19%

Echo Labs   **Houston, TX**
Data Analyst Intern | Excel, Data Collection, Web Scraping, Google Sheets   *May 2024 – Jan 2025*
- Compiled and maintained 10K+ contact records, ensuring accuracy, completeness, and compliance (FERPA, GDPR)
- Conducted web scraping and research on higher education data, improving retrieval and reporting efficiency by ~22%

PROJECTS

LeetTutor - AI Teaching Assistant | Python, Flask/REST, RAG (OpenAI/Gemini), Postgres   *Aug 2025 – Present*
- Developed an AI-powered tutoring platform using RAG pipelines and vector embeddings to deliver real-time code feedback and structured explanations for Java/Python assignments
- Implemented data retrieval and session-logging systems with PostgreSQL and vector storage, improving accuracy ~24%
- Collaborated with a 4-person team to integrate document ingestion, optimize API–database flow, and deploy an MVP on GitHub

Crime Location Prediction Using Machine Learning | Python, Pandas, Scikit-Learn, Data Cleaning   *Jan 2025 – May 2025*
- Cleaned and processed 10K+ crime records using Pandas, applying encoding, scaling, and validation to improve model quality
- Trained and compared 3 classifiers (RF, KNN, DL), tuning hyperparameters to boost accuracy ~12% on imbalanced data
- Evaluated performance using precision, recall, and F1 metrics to enhance prediction reliability for high-frequency crime zones

Smart Home IoT Hub | IoT, Python, Sensor Automation, Dashboard Analytics   *May 2025 - July 2025*
- Designed an IoT prototype integrating 3 sensors (temperature, motion, light) to automate lighting and climate control with Python
- Collected and visualized real-time data streams (~1s refresh) through a live dashboard for monitoring and manual device toggling
- Documented data flow/performance logs, optimizing sensor response and cutting latency ~15% via event handling improvements

LEADERSHIP

Project ODY-C   **Houston, TX**
President   *Jan 2025 – Present*
- Bridged students and industry by recruiting 15+ professionals from 8+ companies for panels and mentorship reaching 200+ peers
- Hosted 8+ networking and mentorship events; tracked RSVPs in Excel, matched mentees to mentors, boosting attendance ~30%

Student Government   **Houston, TX**
Space Utilization Analyst   *Aug 2024 – May 2025*
- Analyzed 200+ room requests/semester for 40+ orgs; built a model reducing conflicts ~13% and improving access campus-wide