Jose Barrera

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Education

Bachelor of Science in Computer Science   December 2024

University of Texas at Tyler, TX | GPA: 3.82

Skills

Languages: JavaScript, SQL, HTML, Python

Frameworks & Libraries: React.js, Django, FastAPI

Databases: PostgreSQL, SQLite

Cloud & Tools: Git/GitHub, AWS, GitHub Actions, Docker, VS Code, Postman

Other: CI/CD, API Development, Authentication, Documentation, Linux

Projects & Experience

Acquisition | https://github.com/JoseBarr777/acquisition | Fall 2025   JavaScript, Docker, GitHub Actions

- Developed and tested a secure REST API with JWT authentication, authorization policies, and Arcjet-powered security controls, improving system reliability and protecting against automated attacks.
- Designed and integrated modular application components using controllers and services, PostgreSQL with Drizzle ORM, validation layers, and structured logging to improve system integrity and simplify troubleshooting.
- Implemented automated CI/CD pipelines for testing, linting, and Docker builds, and documented system flows, migrations, and operational procedures to improve maintainability and support cross-team collaboration.

Insurance Claims Risk Analysis | https://github.com/JoseBarr777/insurance-dashboard | Fall 2025   Python, Power BI, Jupyter

- Analyzed more than 58,000 automotive insurance policies using Python (pandas, numpy) to identify risk patterns across customer demographics, regions, vehicle attributes, and safety features.
- Developed an interactive Power BI dashboard visualizing claim rates, customer segments, and risk distributions, enabling clear communication of insights to both technical and non-technical audiences.
- Documented the full analytical workflow, including data cleaning, segmentation logic, and exploratory modeling to improve reproducibility, transparency, and cross-team understanding of key risk drivers.

Personal Website | Summer 2025   HTML, CSS, GitHub Pages

- Developed a static website hosted on GitHub Pages to showcase personal projects and configured a custom domain using Porkbun DNS with GitHub Pages settings.
- Implemented optimized metadata and Open Graph tags to improve search visibility, link previews, and overall user experience.
- Streamlined deployment by configuring GitHub Pages to build automatically from the main branch, enabling continuous hosting with instant updates and no downtime.

Certifications

Professional Scrum Master I (PSM I) | Scrum.org   June 2025

AWS Certified Cloud Practitioner | AWS   In Progress