Shahzada Ayan

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Stockton, CA | Open to relocation and remote

Education

University of the Pacific — Stockton, CA — Dec. 2027 (Expected)
Bachelor of Science, Business Analytics; Minor, Data Science. Eberhardt School of Business. GPA: 3.85

Skills

Languages and Databases: Python, SQL, TypeScript, PostgreSQL
AI and Machine Learning: LLM application design, retrieval-augmented generation (RAG), vector search, embeddings, prompt engineering, grounding and refusal design, AI guardrails, LLM evaluation, scikit-learn, classification, regression
Data and Analytics: ETL pipelines, data modeling, ERD design, Power BI, DAX, Power Query, JMP Pro, Excel, dashboards, KPI reporting, A/B testing, customer segmentation, survey methodology, statistical analysis, data validation
Engineering: Next.js, React, AWS (S3, Textract, KMS), Git, REST APIs, OCR, multi-tenant architecture, application and database security, data governance, automated testing, PII handling

Experience

Fraqt — AI Compliance Platform for Higher Education — Jun. 2026 – Present
Founder, Software and Data Engineer | Two university offices engaged | Pre-revenue, pre-incorporation
- Shipped a live multi-tenant platform to production in six weeks as sole engineer, serving 1,194 government source passages behind a non-bypassable citation guard that returns a refusal rather than an ungrounded answer
- Implemented database-enforced tenant isolation with non-bypassable row-level security so application-code errors cannot leak across tenants, validated by 93 dedicated tests in a 715-test suite
- Designed change detection so superseded federal guidance is flagged rather than served, and required human confirmation before any OCR-extracted field could drive a computed deadline

University of the Pacific, Summer Conference — Stockton, CA — May 2024 – Aug. 2024
Summer Conference Assistant
- Built an end-to-end data collection pipeline serving 3,000+ attendees and shipped executive KPI dashboards on satisfaction, diversity, and engagement presented to the Board of Regents and prospective students

Pacific Consulting — Stockton, CA — Jan. 2024 – May 2024
Analytics Consultant, client: Groundstack Coffee | Semester engagement for academic credit, unpaid
- Built an entity-relationship model across customers, products, transactions, and marketing experiments, with Python workflows for RFM segmentation, clustering, and A/B test evaluation, and Power BI dashboards that flagged low-margin SKUs and surfaced wholesale as a growth channel

Dagwood Sandwiches — Lahore, Pakistan — May 2023 – Aug. 2023
Marketing Analyst Intern
- Led a team of six digitizing 10,000+ customer records in Excel and SQL, performed segmentation in Python, and built Power BI dashboards and ERD models for marketing KPIs

Research

Bridging the AI Skills Gap — Eberhardt School of Business, Pacific — Feb. 2026 – May 2026
Sole Author | IRB-approved | Submitted to the American Journal of Undergraduate Research
- Designed and fielded a 22-item survey to a 1,021-member sampling frame of editorial-board members at ABDC A and A*-ranked business journals, achieving 170 complete responses at a 16.7% response rate
- Ran importance-performance analysis, reliability estimation, correlation with assumption checks, three-predictor regression explaining 38.5% of variance in curriculum-employer alignment, and clustering in JMP Pro and Python
- Identified AI literacy as a top-three curriculum gap for 66.5% of respondents, with only 10.6% rating institutional AI guidelines clear and useful, and stated the study's limits rather than generalizing

Projects

Telecom Churn Prediction — Classification and Risk Scoring — Spring 2026
Python, scikit-learn, Classification, Cross-Validation
- Compared logistic regression, KNN, decision tree, and random forest on 7,043 telecom customers against a 0.835 AUC baseline, fitting preprocessing on the training split only to prevent leakage; shipped a reproducibility checklist and limitations table, and a weekly top-20% risk-scoring recommendation

Diamond Price Drivers — Paired Analytical Report — Spring 2026
Python (web scraping), Excel (regression, PivotTables, confidence intervals)
- Analyzed 918 pear-shaped diamonds scraped from 4 retailers, finding clarity and color explain 63.3% of price variation together while their individual effects converge once grade averaging is removed (R-squared 0.335 vs. 0.332)
- Worked the dataset independently alongside a second analyst with the grade contingent on both analyses matching, and reported spread, methodology, and limitations

AI Impact on Job Market Dashboard — Labor Market Analysis — Fall 2025
Power BI, DAX, Power Query, Data Modeling, Predictive Analytics
- Analyzed a 30,000-role global dataset across eight countries to quantify automation risk, projected openings, and salary and experience benchmarks by education, industry, and geography, with DAX measures supporting self-service drill-down