

Krishna Barri

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Professional Summary

Lead AI Engineer and Data Scientist with 9+ years of experience building software and data platforms, including the last three years building production AI systems. Currently own the AI and analytics platform for a multi-location healthcare business, including multi-agent workflows, MCP integrations, natural-language analytics and the AWS infrastructure behind them.

Certifications & Licenses

- AWS Certified Generative AI Developer - Professional
- AWS Certified Solutions Architect – Associate

Technical Skills

Business Systems and Integrations: Zenoti (REST API, webhooks, flat-file reports, data migration), Meta Marketing API, Google Analytics 4, Google Search Console, HubSpot, Five9, REST and OAuth integrations

Analytics and Reporting: Tableau Desktop, Tableau Server administration (permissions, row-level security, content governance), executive and multi-location dashboards, KPI and scorecard design, revenue and margin reporting, commission and payroll reporting, Next.js, TypeScript, ECharts

AI and LLM Systems: Python, LLM application development, tool use and function calling, RAG and schema grounded retrieval over enterprise data, guarded SQL execution, agent orchestration and scheduling, Model Context Protocol (MCP), Amazon Bedrock, Amazon SageMaker, evaluation datasets and output validation, token metering and spend controls

Data Engineering: SQL, dbt, Pandas, FastAPI, ETL and ELT design, incremental and watermark-based loads, data validation and reconciliation, dimensional modeling, aggregate design, pytest

Cloud and Infrastructure: AWS Redshift, S3, Glue, Lambda, EventBridge, ECS, ECR, IAM, VPC, Secrets Manager, CloudWatch, Systems Manager, Kubernetes, Docker, Git, Bitbucket, CI pipelines

Databases: PostgreSQL, AWS Redshift, MSSQL and T-SQL, MySQL, Oracle and PL/SQL

Experience

LEAD AI ENGINEER & DATA SCIENTIST | 02/2023 - Current

It's A Secret Med Spa - Irving, United States

- Built and currently run the analytics and AI platform for a med spa group of 15 locations plus corporate. Zenoti, NetSuite, Salesforce, Rippling, the ad platforms and the website all land in one warehouse, get modeled in dbt, and reach corporate leadership and location managers through a dashboard app I maintain. One place for revenue, cost, payroll and marketing instead of nine separate logins, over roughly 1.3 million invoice lines of history.

- Built the AI layer on that data. Staff ask about commissions, payroll, inventory, sales, memberships and executive KPIs in plain language and get the number the dashboard shows, create chart tiles by describing them, and receive scheduled reports in email or Teams. Every generated query runs under permission checks, a cost ceiling, and a refusal path for questions the data cannot answer.
- Split the AI platform across specialized agents for commissions, payroll, inventory, sales and memberships. The agents hand work off to each other and expose approved tools through MCP, with warehouse access restricted to the same permissions as the requesting employee.
- Score AI responses on correctness against known-good answers, latency, cost per question, and whether the answer was useful enough to act on, with token metering and a per-tenant spend cap so a runaway question cannot run up a bill.
- Stood the same platform up for a second organization on isolated per-tenant infrastructure, with onboarding automated down to a single provisioning command.
- Rebuilt Zenoti ingestion after finding three defects that were quietly corrupting revenue, and got it reconciled to 99.87% against source. Documented five ways the vendor's appointment API returns incomplete data, including cancelled and no-show records it omits, and added reconciliation guards so appointment counts stop drifting.
- Built product cost tracking that ties consumption to an effective-dated master price list, which gave the business per-service and per-provider margin for the first time. The POS does not report it.
- Reconciled collections at the invoice line, cash collected against what was billed, with the exceptions sorted into bundled fees, genuine double charges, and records the POS had orphaned upstream. Finance stopped chasing differences by hand.
- Built package and membership liability reporting on a prorated-paid basis net of refunds. Building it turned up three defects in the vendor's own liability report, which the business had been closing books against.
- Joined Meta ad spend and GA4 traffic to POS revenue so marketing sees return by campaign against collected dollars instead of platform-reported conversions. The first run found several thousand dollars a day still committed to campaigns that had stopped producing, and separately caught that the website had quietly stopped firing purchase events.
- Nightly incremental refresh with deletion reconciliation, monitoring and failure alerts. The dashboard matches the POS the next morning.

Tech: Python, FastAPI, SQL, dbt, PostgreSQL, AWS Redshift, S3, Glue, Lambda, EventBridge, SQS, API Gateway, ECS, Secrets Manager, Bedrock, Claude, SageMaker, Next.js, TypeScript, Tableau, Docker

SENIOR SOFTWARE ENGINEER | 10/2019 - 12/2021

Zenoti - Hyderabad, India

- Led the automation and data migration group. Built a Python migration and validation tool that cut new-location onboarding time by about 30%.
- Moved client data off on-premise systems into AWS S3 and Redshift, with pipelines that could restart and roll back mid-run.
- Automated API and MSSQL extraction, SFTP retrieval and report validation across Redshift and MSSQL, which took a large recurring manual load off the delivery team.
- Wrote and tuned T-SQL and PL/SQL against the platform's transactional schema, the same schema I now pull from on the client side.
- Built Tableau dashboards with dynamic filters and KPIs over Redshift, MSSQL and the platform APIs, and ran Tableau Server: permissions, row-level security, content governance, performance tuning.

Tech: Python, .NET Core, SQL Server, SSIS, AWS S3, Redshift, Tableau, Tableau REST API

SOFTWARE ENGINEER | 06/2016 - 09/2019

GGK Technologies (now Innova Solutions) - Hyderabad, India

- **Baxter** (medical devices), Jun 2018 to Sep 2019: built ingestion and integration in Python and Java across APIs, S3 and Redshift, supported the Oracle JDE migration into the on-premise warehouse, containerized deployments with Docker and Kubernetes, and handled Basic, token and OAuth authentication against third-party platforms.
- **Rhetorik**, Mar 2017 to Jun 2018: REST services in Django REST Framework, Python ingestion of CSV feeds into MSSQL, and a hybrid framework covering API, UI and ETL automation.

- **OM1** (healthcare outcomes data), Aug 2016 to Mar 2017: SQL for ETL validation and ad hoc analysis, Tableau dashboards for operational monitoring, and Spring Boot services capturing curator responses.

Education

University of Central Missouri - Warrensburg, MO | Master of Science

Computer Science, 05/2022

Awards

- Zenoti Impact Award, Q2 2020
- Employee of the Year 2018-19, GGK Technologies
- Appreciation Awards for exceptional work, Nov 2017 and Nov 2018, GGK Technologies