

KRISHNA DHEERAJ KROVI

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SUMMARY

Software Engineer with 3+ years of experience building scalable backend systems, developer tooling, and infrastructure for production-grade applications. Strong expertise in Python and Go, with hands-on experience in distributed systems, Kubernetes, CI/CD pipelines, and system reliability. Proven track record of designing automation frameworks, improving system performance, and enabling faster engineering velocity through robust tooling and workflows.

SKILLS

- Languages: Python, Go, Java, C, JavaScript, SQL
- Systems & Infra: Kubernetes, Docker, CI/CD (GitHub Actions), ArgoCD, AWS (EKS, S3), Linux
- Engineering: Distributed Systems, System Design, Debugging, Performance Optimization, Testing Frameworks
- Data/ML: PyTorch, Spark, Kafka, Redis

WORK EXPERIENCE

Artha Solutions – Software Development Engineer | Scottsdale, AZ

May 2022-Present

AI-Powered Workflow Assistant

- Designed and built a distributed job orchestration system using asynchronous workers, queues, and retry mechanisms, enabling reliable execution of multi-stage workflows and reducing failure rates by 30%
- Developed internal tooling for workflow automation and tracking, improving engineering visibility and reducing manual coordination overhead across teams
- Built prompt versioning and caching infrastructure (PostgreSQL-backed) enabling reproducibility, A/B testing, and reducing compute costs by 40%
- Implemented fault-tolerant execution patterns (retries, fallbacks, idempotent tasks) improving system reliability for long-running workflows
- Deployed microservices on Kubernetes (EKS) with ArgoCD-based GitOps pipelines, enabling zero-downtime releases and automated rollbacks
- Improved observability by integrating structured logging and monitoring, reducing debugging time for production issues

Revenue Forecasting Platform

- Building an explainable revenue forecasting system to support operational planning and long-term strategic forecasting by modeling regional revenue trends under varying business and macroeconomic conditions
- Conducted exploratory data analysis on ten year revenue data using PySpark, Hive/Impala and PostgreSQL to assess data quality, distributional properties, and modeling feasibility
- Designed a time-series feature strategy informed by EDA, including lagged features, rolling statistics, volatility measures, behavioral ratios, fleet mix, and macroeconomic drivers, tailored for regional revenue forecasting
- Analyzed heavy-tailed revenue distributions, seasonality patterns, volatility clustering, and regional heterogeneity, informing feature transformations and candidate modeling approaches
- Established a roadmap for MLOps implementation (MLflow, validation gates, drift monitoring, retraining) to transition the project from EDA to production-ready ML workflows

ThinkTank Lab

- Led 3 interns to build data-driven inventory prototypes, enhanced forecasting accuracy, guided stakeholder decisions for a Fortune 500 firm
- Used Impala to connect to Hive data lake and imported the results into Azure Synapse for further processing
- Conducted data preprocessing in Python and utilized the live code feature of the Driverless AI tool on the H2O.ai platform
- Delivered actionable insights and prototype results that helped stakeholders assess the feasibility of ML-driven inventory forecasting and decide next steps for potential production investment

Data Migration & ETL Enhancement

- Monitored and managed an end-to-end data integration and ETL process for a major healthcare client
- Facilitated product updates by modifying existing Azure Data Factory pipelines to ingest data from Oracle Market Prominence into Azure Data Lake Storage
- Enhanced downstream data availability by modifying and running Talend jobs and optimizing SQL Server stored procedures supporting new updates

EDUCATION

University of Southern California

MS in Electrical & Computer Engineering

Aug 2021-May 2023

Jawaharlal Nehru Technological University, Hyderabad

BTech & M.Tech in Electronics & Communications Engineering

Aug 2015-Nov 2020