Chaithanya Vemuri

Junior Cloud / Platform Engineer | Python, GCP/GKE, Terraform & GitOps

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github.com/nikchey29 | Portfolio & case studies | LinkedIn

PROFILE

Berlin-based MSc candidate with independent GCP/GKE delivery and recovery labs, supported by Python, SQL and ML engineering projects. I am interested in junior platform roles where repeatable delivery, observability and careful troubleshooting matter.

TECHNICAL SKILLS

Platform labs: GCP, GKE Autopilot, Terraform, Kubernetes, Helm, Argo CD, OIDC / WIF

Delivery / operations: Docker, GitHub Actions, Trivy, Prometheus, Grafana, Alertmanager, Linux, Bash

Data / services: Python, SQL, FastAPI, PostgreSQL, DuckDB, Parquet, dbt, pytest

SELECTED INDEPENDENT ENGINEERING & MSc RESEARCH

FulfillAI Platform V2 / Controlled GCP/GKE API lab

- Provisioned the lab with Terraform. Built keyless GitHub Actions delivery using OIDC / Workload Identity Federation, container scanning and exact-digest promotion into Helm / Argo CD desired state.
- Verified the API health / metrics delivery path, Prometheus / Grafana and synthetic Alertmanager-to-Slack routing. Diagnosed a deliberately injected ImagePullBackOff and restored a known-good release.
- Recorded controller-ownership and rollout-verification lessons. The 99.9% SLO is a lab target; cloud checks do not establish that the full data and ML stack ran in GKE.

REES46 V2 / Data engineering / recommendations

- Processed 411.7M historical events into 410.3M canonical Silver events using DuckDB and Parquet. Reworked a failed ~30.6 GiB global spill into restartable monthly Gold outputs and 64 session hash buckets.
- Separate offline benchmark: 1,499,021 training interactions and 5,000 held-out test users. Purchase-ranker MRR@20 improved from 0.02443 to 0.03556 versus popularity; exposed the bundle through a local FastAPI service.

OTTO hourly cart / order forecasting / MSc dissertation

- Compared eight methods on 672 hourly observations using three chronological development folds and a separate 96-hour holdout. Weekly seasonal baseline selected at 13.93% mean CV WAPE; final carts / orders WAPE: 9.80% / 11.34%. The Transformer was not selected.

EDUCATION & TRAINING

MSc Data Science, AI & Digital Business | Gisma University of Applied Sciences | In progress

BTech Electronics & Communication Engineering | Sri Venkateswara College of Engineering, Tirupati

IntrnForte: Python self-directed learning / training.