

DARSHAN VALIA

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SUMMARY

Backend, data and applied-AI engineer with 12 years of experience building data platforms, pipelines and multiagent systems. Owns architecture end to end, from technology selection and system design to reliable production deployment.

EXPERIENCE

Ken-E | *Freelance Software Engineer* | *Mumbai, India (Remote)*

April 2025 - August 2026

- Technologies: Python, FastAPI, Google ADK, GCP (Vertex AI, Cloud Run, Firestore), Neo4j, React, TypeScript, Terraform
- Evaluated and selected Google ADK over the initial CrewAI prototype; owned backend architecture, deployment and testing, taking a multiagent AI marketing platform from prototype to a production deployment across 10+ components
- Implemented a cross-component architecture change unifying scheduled projects and automations onto one supervised-agent model: durable execution (Cloud Tasks, Cloud Run), budgeted wave-by-wave DAG runs and restart-safe approval checkpoints
- Built the multiagent strategy research pipeline that populates each client's Neo4j knowledge graph (products, customer profiles, competitors, brand) with vector search, parallelized its agent runs, and grounded chat agents in graph context
- Delivered a 19-project, 6-wave release through the founder's AI-agent delivery pipeline via Linear: set quality gates, and verified and released agent-authored changes; built the team's standard Claude Code review skill
- Cut chat latency from 5-7s to under 1s for follow-up messages and by ~10-13s for completions
- Led ADK and Vertex AI technical research: prototyped agent patterns (review loops, dynamic agents, MCP tool management), flagged the ADK 2.0 migration early, and fixed deployment and storage so sessions and artifacts survive redeloys
- Delivered shared platform services: RBAC with a transactional audit trail (nightly BigQuery export), feature flags with percentage rollouts, a Redis-backed per-user rate limiter, and a GCS artifact store for chaining agent outputs

Aabhra Inc | *Senior Software Engineer* | *Mumbai, India (Remote)*

July 2022 - September 2024

- Technologies: Java (Spring Boot), Python, ANTLR, Docker, Terraform, AWS (EKS, ECR, RDS-MySQL, Athena, Bedrock)
- First employee and technical lead for the global development team, responsible for taking product from prototype to production
- Architected an intent-based data discovery, cataloging, lineage and ontological analytics platform for a major bank
- Built Aabhra DataGenes™ and a custom query engine for cross-silo analytics using ANTLR for intelligently processing intent
- Automated the schema crawling, cataloging and ontology configuration management of clients' data warehouses using Meta Llama 3 and SchemaCrawler, reducing the time needed to onboard each new client's warehouse by 90%
- Built the production environment and CI/CD pipelines on AWS and GitHub using Terraform, EKS and ECR

Engineers Gate LP | *Software Engineer* | *Mumbai, India*

May 2019 - July 2022

- Technologies: Python, Pandas, Mesos, AWS (Redshift, PostgreSQL, S3, ECR, Athena)
- Engineered robust data pipelines in Python for a \$3 billion quantitative fund, ensuring seamless data flow and integrity
- Spearheaded the ingestion of 30+ financial and regulatory data sources into Redshift and PostgreSQL for quant portfolio teams
- Evaluated 20+ vendor data sources, resolved data quality issues and ensured adherence to strict internal standards
- Automated ETL processes using Luigi and Docker for timely data delivery before trading sessions across global stock exchanges

Bloomberg LP | *Software Engineer - BQL* | *New York, USA*

February 2016 - April 2019

- Technologies: Java (Spring Boot), Python, ANTLR
- Built a cloud-based platform for cross-domain data analytics and screening engine capable of querying across petabytes of data
- Designed core features to perform analytics via DSL queries for quantitative research, technical analysis, and backtesting
- Partnered with 10+ engineering, product and data teams to onboard 20+ content sets onto the BQL platform
- Implemented software tooling, CI/CD and process documentation, reducing live bugs and issues by 60%

Sokrati | *Software Engineer - Infrastructure* | *Pune, India*

July 2012 - April 2014

- Technologies: Java, MySQL, Google AdWords API, Facebook Ads API, Puppet
- Implemented core bid-optimization algorithms automating ad campaigns for leading Indian e-commerce, media and travel firms
- Led redesign of Sokrati's apps interfacing with Google and Facebook ad APIs; added features and reduced sync time by 50%
- Designed and built notification and event management systems used for automatically triggering business application workflows

EDUCATION

SDA Bocconi - Executive MBA (IEMB)

December 2024

University of Illinois Urbana-Champaign - Master of Computer Science

December 2015

Mumbai University - Bachelor of Engineering in Information Technology

May 2012

VOLUNTEERING

- Antarang Foundation (2025): supported GCP and BigQuery data projects, enhancing the foundation's data capabilities
- United Nations (2025): co-built a data platform for its Global Center for Risk and Innovation to predict heatwave impacts
- Best of Bloomberg (2016-2019): cleanups, event support, ESL conversation moderation at the NYPL