

# KRITIK MODI

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## Experience

- Datatailr** Remote, New York  
*Founding Engineer* *November 2023 - Present*
  - Multi-cloud enablement (AWS, Azure, GCP, Hetzner):** Designed and implemented a multi-cloud infrastructure platform, with the product itself defined as code using Terraform across AWS, Azure, GCP, and Hetzner (compute, storage, networking, containers, IAM). Built supporting Python and C++ orchestration layers and automated SQL provisioning. Designed a one-click deployment system to spin up installations end-to-end. Enabled 10+ business deployments, driving +250% ARR / \$500k pipeline.
  - Private Networking Architecture:** Designed and implemented a private network cluster on Azure comprising VNets, subnets, firewalls, private DNS zones, and Private Endpoints, enabling secure, internet-isolated access between services while meeting production security requirements; unlocking a new security-heavy revenue-generating model.
  - Batch orchestration & graph tooling:** Defined DAGs for batch pipelines and built a dependency visualizer that orders stages via topological sort; enabled node-level observability and retries through a custom UI.
  - Observability and cost optimizations:** Instrumented cron and Nomad compute metrics, exporting via Statsite to the metrics backend, with NGINX as reverse proxy. Designed an algorithm to determine optimal resource allocation based on historical usage and built backend APIs to optimize jobs, reducing costs by ~75%.
  - Federated SQL layer (Trino + managed SQL Servers):** Designed and integrated a Trino-based query layer with multiple managed SQL Server catalogs (Postgres, Snowflake, BigQuery, Redshift, Hive, S3, MySQL), unifying access to 100K+ tables. Reduced heavy query runtimes by ~90% and enabled quants to join data across sources with zero ETL.
  - Infrastructure Automation & CI/CD:** Designed and implemented GitHub Actions workflows for end-to-end testing and automated provisioning of new installations across multiple cloud environments. Streamlined deployment processes, reducing developer overhead while improving control and reliability of infrastructure changes.
  - Client Engineering:** Worked directly with enterprise clients and prospects to build and scale production use cases on Datatailr, owning end-to-end execution from debugging critical issues to delivering robust solutions. Surfaced product gaps through hands-on deployments and drove fixes, feature development, and performance optimizations.
- Juspay** Hybrid, Bangalore  
*Software Development Engineer* *April 2023 - November 2023*
  - Payment orchestrator (Hyperswitch, open-source):** Contributed Rust features/fixes to a payment routing engine (idempotency keys, retry/backoff, and input validation) for safer, efficient transaction processing under high concurrency.
  - Backend SDKs (Hyperswitch integrations):** Designed and published multiple backend SDKs to enable integrations with Hyperswitch across multiple stacks (Node.js, PHP, Go, Ruby, Java), with frontend components in JavaScript/HTML/CSS; open-sourced for external developer adoption. [\[LINK\]](#).
  - Release engineering & DevOps:** Dockerized services and authored Jenkins pipelines to build/test/publish artifacts; managed AWS configs and rollouts for reliable deployments; deployed Kubernetes pods for backup.

## Achievements

- Smart India Hackathon 2022:** Winner · Built a scalable fake news detection system for Twitter that identified and flagged misinformation from spam accounts using multi-parameter analysis · Awarded by the Government of India. [\[LINK\]](#)
- GitHub Externship 2022:** Selected as a GitHub Extern among 14000+ applicants with a selection rate of 0.6%. [\[LINK\]](#)
- ACM-ICPC 2022:** Regionalist; qualified for the Kanpur-Mathura regionals and ranked amongst the top 80 teams onsite.
- Meta Hacker Cup 2024:** Achieved India Rank 186 and 85 in Hacker Cup Round 1 and Round 2 respectively.
- Google Code Jam 2023:** Achieved India Rank 248 and 43 in Code Jam Farewell Round A and Round C respectively.
- LeetCode (Guardian):** Peak rating: 2488 · Top 0.2% global, Top 0.03% India · Best rank: 32 among 30000+ contestants.
- CodeChef (6\*):** Peak rating: 2222 · Top 0.5% global, Top 0.05% India · Best rank: 11 among 3000+ contestants.
- Research Publication:** Published a literature survey on misinformation flagging systems, analyzing AI/NLP techniques such as text classification, feature extraction, and network-based signals for content moderation and platform security. [\[LINK\]](#)

## Skills Summary

- Languages:** Java, Python, C++, JavaScript, SQL, Bash
- Infrastructure & Cloud:** Terraform, AWS, Azure, GCP, Kubernetes, Docker, Nomad, Hetzner
- Databases:** MySQL, MongoDB, PostgreSQL

## Education

Dayananda Sagar College of Engineering  
*Bachelor of Engineering (Computer Science and Engineering), CGPA: 9.10*

Bangalore, India  
*2019 - 2023*

## Coding Profiles

- Competitive Programming:** 2000+ problems solved: [\[Codeforces\]](#) [\[CodeChef\]](#) [\[LeetCode\]](#) [\[AtCoder\]](#)
- GitHub:** Open-source and projects: [\[github.com/kritikmodi\]](#) · **Selected repos:** [\[Codeware\]](#) [\[CollegeLink\]](#) [\[Portfolio\]](#)