Apurv Chandel

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SUMMARY

Data Engineer with expertise in distributed systems, real-time streaming, and cloud-native data architecture. Built scalable data platforms processing 50M+ events daily with sub-second latency. Proficient in Go, Python, Apache Kafka, AWS, and modern data stack technologies. Achieved 99.99% uptime, 40% cost reduction, and 60% performance improvements through advanced optimization techniques. Led cross-functional teams, mentored junior engineers, and established data engineering best practices.

EDUCATION

- **Indian Institute of Information Technology, Nagpur**   2018 - 2022
  B.Tech Computer Science and Engineering   *CGPA : 8.64/10*

- **Narayana Junior College, Hyderabad**   2016 - 2018
  Higher Secondary School   *Percentage : 97.8%*

SKILLS

- **Languages**: Python, Java, Go Lang, C++, SQL
- **Big Data & Streaming**: Apache Kafka, Apache Flink, Apache Spark, Apache Iceberg
- **Cloud & Infrastructure**: AWS (S3, EMR, Redshift, ECS), Docker, Kubernetes, Terraform
- **Data Engineering Tools**: dbt, Airflow, Databricks, Great Expectations, Apache Atlas
- **Databases**: MySQL, DynamoDB, MongoDB, Redshift, PostgreSQL
- **Monitoring & Observability**: Datadog, Prometheus, Grafana, ELK Stack
- **Version Control & Tools**: Git, JIRA, Postman, CI/CD

EXPERIENCE

- **Shaadi.com**   Mumbai, India
  Data Engineer   *October 2023 - Current*

  - **LeanTrek - Distributed Data Processing Platform**: Architected and deployed a production-grade, fault-tolerant data pipeline processing 50M+ events/day with sub-second latency, utilizing Go microservices, Apache Kafka, and AWS S3, achieving 99.99% uptime and 40% cost reduction.

  - **Real-time Streaming Analytics Engine**: Constructed a high-throughput streaming platform handling 100K+ events/second using Apache Kafka, Apache Flink, and AWS EMR, enabling real-time decision making for 50M+ users with < 100ms end-to-end latency.

  - **Multi-tenant Data Lake Architecture**: Engineered and deployed a scalable data lake strategy across 10+ business domains (FamilyShaadi, Sales, Response33) using AWS S3, Apache Iceberg, and Redshift, managing 500+ TB of structured/unstructured data.

  - **Performance Engineering & Optimization**: Reduced query execution time by 60% through advanced partitioning and indexing strategies, configured intelligent caching layers reducing API response times by 80%, enhanced Redshift cluster performance handling 1B+ daily queries.

  - **Data Quality & Reliability Engineering**: Created comprehensive data quality frameworks with automated anomaly detection, defined data contracts and schema evolution strategies, achieved 99.9% data accuracy through automated validation pipelines, reduced data incidents by 90% through monitoring and alerting in Datadog.

  - **Cloud-Native Data Architecture**: Migrated legacy systems to cloud-native architecture using AWS ECS, Lambda, and S3, configured Infrastructure as Code using Terraform and CloudFormation, architected multi-region disaster recovery with RTO < 15 minutes

  - **Cross-functional Leadership**: Mentored 5+ junior data engineers and defined best practices, collaborated with product teams to define data requirements and SLAs, led technical architecture reviews

  - **Innovation & Research**: Pioneered adoption of modern data stack technologies (dbt, Airflow), conducted performance benchmarking and technology evaluation for data processing tools, contributed to open-source data engineering projects

- **Cognizant**   Bangalore, India
  Associate   *July 2022 - July 2023*
  - Albertsons Voice Assistant (AVA) backend using Spring Boot & Dialogflow CX, handling 100,000+ customer interactions daily.
  - Designed privacy-preserving data exchange solutions, reducing data exposure risks by 60% and ensuring GDPR compliance.
  - Implemented parallel query execution, reducing database response time by 25%, improving customer service efficiency.
  - Conducted 20+ code reviews & architectural discussions, ensuring adherence to best practices and reducing critical issues by 40%.
  - Optimized IVR system with Dialogflow, Spring Boot, and REST APIs, reducing customer wait times by 25% and improving call resolution rate by 15%.

- **Tata Research Development and Design Center(TCS)**   Pune, India
  Research Intern   *June 2021 - December 2021*
  - Developed optimized data structures in Java, improving model-building speed by 30%.
  - Extracted and consolidated data from three disparate sources utilizing Apache POI and custom document analysis libraries, accelerating data retrieval speeds by 40% and reducing manual effort.
  - Created an ANTLR4-based compiler to validate function syntax, reducing debugging time by 50%.

ACHIEVEMENTS

- GATE 2024 qualified.
- Ranked 152nd in CodeChef Open Long Challenge 2021 (30,000+ participants).
- Secured 1471th world rank in Google Hashcode 2021 (7.7M+ points).
- Elected as Secretary of SAC, IIIT Nagpur (2021), leading 10+ student initiatives.

PROJECTS

- Book Store Management System: Designed architecture in Python, implementing secure login & filtering options.
- Abhivyakti Website Development: Official website for IIIT Nagpur's cultural fest, attracting 1,000+ visitors.
- Built an Android & Firebase-based app for COVID-19 contact tracing, extending AarogyaApp's functionality.
- Enabled authorities to track 20+ nearby store visits and identify potential virus spread.

CERTIFICATIONS & INTERESTS

- AWS Certified Solutions Architect (Ongoing)
- Active participant in hackathons & coding competitions.
- Interested in System Design, Distributed Computing, and Backend Scalability.