Aditya Goel

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Education

Indian Institute of Information Technology, Allahabad   *Allahabad, India*

BACHELORS, MASTERS IN INFORMATION TECHNOLOGY   *June 2016 - July 2021*

- Merit Scholarship
- Cummilative GPA : **9.02**

Work Experience

Riva Money   *London, Remote*

FOUNDING ENGINEER   *April 2024 - Present*

- Designed a microservice for **ingesting Bloomberg Market Data Feed** (Spot and FX forwards for G10 currencies), enabling **reliable processing of market security updates every 330ms**. Architected components for **high-throughput data persistence, low-latency querying**, and system resilience.
  Led end-to-end stakeholder communication with Bloomberg's London office.
- Designed and **built integrations with a leading identity verification provider** to enable AML/KYB checks during customer onboarding. **Developed resilient WebClients, scalable webhook handlers, GCS-based secure storage, and asynchronous pipelines** for handling sensitive PII documents with high reliability.
- **Self-hosted the Grafana Stack (Loki, Grafana, Tempo, Mimir, and Alloy)** on a Google Cloud GKE cluster using **GitOps Principles** and Infrastructure as Code. Set up OpenTelemetry agents, structured logging in applications, **composed Helm charts and supporting Terraform modules** to automate deployment and configuration.
- Reviewed code across key services including Identity, Transaction Monitoring, Accounts, and Integrated Finance. Contributed to the **setup of staging and production environments**. Actively participated in **design and architecture reviews** for all core components of the Riva platform.
- *Tools and Tech Stack:* **Java Spring Boot, PostgresQL, Google Cloud, Grafana Stack, Terraform**

Wayfair Inc   *Bengaluru*

SOFTWARE DEVELOPER - 2   *Dec 2023 - April 2024*

- Developed an event driven workflow to **process 100 million** events daily. Implemented **error handling and failure management** mechanisms to ensure all events are fully accepted and processed.
- Led an **organisation-wide initiative** to identify and rectify root cause of misreported product valuations to the US customs officials. Coordinated with **lawyers, product managers and engineers from several teams** to fix duty calculation.
- Achieved a **direct annual gains of $12MM**, previously incurred as fines and interest due to erroneous customs declarations.
- Investigated inconsistencies in items subject to import restrictions that were still being shipped. Developed scripts to identify these items and resolved the root issue. **Communicated a $30MM impact** to the fulfilment team in terms of avoided fines and facilitating the new Canada to US logistics route.
- **Led the development of logistics restriction service** to ensure order fulfillment in compliance with the latest shipping regulations. Oversaw database architecture, high-level design, and low-level code implementation
- Developed various Python scripts for activities like data correction, large data ingestion, quarterly reconciliation, and additional business needs.
- Participated in bug-bash to fix incorrect data on UI portals, improved code structure and overall performance of the system.
- *Tech Stack:* **Java, Python, PostgresQL, Google Cloud, GenAI**

BlinkIt-Zomato

Bengaluru

Software Developer

Aug 2021 - Oct 2023

- As a **product engineer**, I take **end-to-end ownership** of small and medium features, notably **BlinkIt-Hyperpure (Zomato)** EDI System, **Inventory Audit** Workflow, **Task Auto-Assignment Logic**
- **Independently developed** a **resource allocation engine** for warehouses workforce automation that saved **75 lakhs per month** in employee cost and **eliminated 60 hours+** of managerial overhead per day
- **Successfully** migrated entire **inventory pricing** to a new service in a different language, empowering new pricing pipelines and saved several weeks of addition development effort
- Optimised 10+ nightly jobs to decrease execution time from **few hours to less than 5 minutes**
- Contributed in **cross-team projects** in building **Multi-Replenishment System**. Shortened the **New Product On-boarding** and **Offer Creation** Systems from **2 weeks to 3 days**
- Reworked the **GST computation logic** to accommodate for new product categories and tax changes
- Implemented **fail-safe layer** for communication between **Celery and SQS**. Set up CRON jobs to ensure that 100% messages are processed despite any initial failure(s).
- Contributed towards the legal restructuring of **Grofers to BlinkIt**, worked on invoice sequencing logic and multi-vendor support
- Responsible for **Design** (Correctness and Scalability), **Implementation**, Setting up **Monitoring and Alerting** (Grafana Dashboards, Sentry, Opsgenie), **Debug Toolkit** (APIs, queries, RCA tools), **Performance**, and **Production Support**
- *Tech Stack:* **Golang, Python, Java, MySQL**

Amazon

Bangalore

Software Engineering Intern

Jan 2021 - July 2021

- **Implemented** the design for the **service migration** of Amazon Pay on **Amazon.com/Your-Orders** Page.
- Wrote SJCL contracts (Internal Java Library) to correctly **navigate complex business conditions** and show the intended data on the page.
- Suggested **design changes to improve performance**, participated in design reviews, set up new repositories in Amazon Pay, and wrote detailed usage documentation.
- **Collaborated with overseas sister teams** for code reviews, deployments and contributed to their code base to enable Amazon Pay functionality.
- **Successfully migrated 100% traffic** to the new endpoint for all devices (mobiles, tablets, and PCs), impacting all customers in North America region.
- *Tech Stack:* **Horizonte (Java Spring Boot), PHP**

Notable Projects

Inventory Routing Problem With Time Window Optimization

Remote

Graduate Research Assistant | University of Chicago

July 2020 - Jan 2021

- Tasked with reducing the overall cost delivery fleet for replenishing retail stores when the weekly demand is known.
- Strict time windows at stores, variable heterogeneous fleet, and unknown intermediate stops were amongst the major constraints.
- **Integrated Google Maps API** to accurately calculate routes and cost.
- **Developed a Python Library** which computes routes via **multiple heuristics** and provide insights for each solution.
- Successfully defended the research as a part of Masters' Degree.
- *Tech Stack:* Python, Gurobi Optimizers (Mixed Integer Linear Programming)

Mixture of Manifold Experts: Large Scale Classification for Genomics

Hyderabad, Remote

Reliance Industries | JIO AI Centre of Excellence

Dec 2019 - June 2020

- Built complex mathematical formulations to create affinity networks of data points.
- Optimised code to run computation for extremely large (genomics) dataset.
- Integrated the entire process with workflow management tools to schedule jobs.
- Performance extensive research and experimentation throughout the project.
- Received several accolades and follow-on internship offers
- *Tech Stack:* Python, Scala, Microsoft Azure

Publications

IEEE

- P. Shukla, B. Bhandari, **A. Goel**, et al, **"Fusing Multimodal Human-Robot Communication using Deep Learning"**, 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), ALIGARH, India, 2019, pp. 1-6, doi: 10.1109/UPCON47278.2019.8980213.