Education _

Indian Institute of Information Technology

Allahabad, UP, India

June. 2016 - Jul. 2021

B.Tech + M.Tech (Dual Degree)

• CGPA: 9.02

• Bachelors and Masters in Information Technology

Work Experience _____

BlinkIt Remote

SOFTWARE DEVELOPER | SUPPLY CHAIN ENGINEERING

Aug 2021 - Present

- 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 | Remote

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 documentation** for its usage.
- 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)

JULY 19, 2023 ADITYA GOEL

Mixture of Manifold Experts: Large Scale Classification for Genomics

Hyderabad, Remote
Dec 2019 - June 2020

RELIANCE INDUSTRIES | JIO AI CENTRE OF EXCELLENCE

- 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/UP-CON47278.2019.8980213.

Certifications

Amazon Web Services

• AWS Certified Cloud Practitioner