Shubham Rathod

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Experience

- **Deliveroo** — On-Site (Full-Time)
  SDE-2 Backend (Java, springboot, hibernate, DynamoDB, PostgresSQL, Kafka) — *Feb 2025 - current*
  - **Architected and delivered Promotions Un-Stacking System**: To prevent customers from combining multiple offers, aligning Deliveroo's discounts strategy with industry standards. Designed and integrated new GraphQL APIs (60K+ RPM) for offer discovery and redemption, spanning 5 microservices internally(Payments, Pricing, Basket). Reduced marketing spend by 27% and contributed to improvment of iGTV through optimized discount logic.
  - **Developed a Dedicated Promotions Merchandising content pipeline**: Enabled campaign-specific layouts and creative assets for promotions. Integrated with Tier-0 Home Feed (80K+ RPM), improving promotional visibility and engagement by 15%. Delivered a zero-downtime rollout and introduced content modularization for marketing teams.

- **Mercedes-Benz RNDI** — On-Site (Full-Time)
  Sr Backend Engineer (Python, FastAPI, Airflow, MS-SQL, GCP, Docker) — *Sept 2023 - Feb 2025*
  - **Architected a scalable annotation export pipeline**: processing 10TB+ of data daily, automating vendor specific annotation workflows for autonomous driving datasets. Improved cloud spends by 50%, by removing data duplication. ensuring consistent delivery for global vendors. Designed and deployed vendor facing scalable REST APIs.
  - **Led cloud migration of the Interior Sensing domain's**: on-premises tech stack to GCP, improving reliability and cost efficiency. Mentored 4 engineers, reviewed designs, and established CI/CD and high scale data export workflows.

- **Myntra-Designs Private Limited** — On-Site (Full-Time)
  Backend Developer (Java, SpringBoot, Python, FastAPI, Kafka, MongoDB) — *Jun 2021 - Aug 2023*
  - **Seller Order Management APIs**: Engineered, automating manual workflows during high-revenue days, Improved order processing speed by 70% through templated automation.
  - **Store Capacity Logistics Management**: Led the design of REST APIs for entire new packaging flow management, impacting better delivery date promise, optimizations.
  - **Order events routing revamped**: Developed high-throughput event-driven architecture (100K+ RPM) for routing all order-related events, ensuring real-time consistency and low latency.
  - **Return Order's notifications**: Enhanced Email Template APIs (CRM) supporting return-speed perception experiments, improving customer perception of delivery speed.

Education

- **Indian Institute Of Technology Guwahati** — Assam, India
  Master of Technology - Signal Processing and Machine Learning; GPA: 8.89 — *July 2019 - June 2021*
  Courses: *Computer Vision, Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, Signal Processing*

Skills Summary

- **Languages**: Java, Python, Go, Node.js, TypeScript
- **Frameworks**: SpringBoot, FastAPI, Flask, Gunicorn, Spring, Airflow
- **Tools**: Docker, Kubernetes, GIT, MongoDB, Redis, Ms-Sql, PostgresSql, Kafka, Datadog, DynamoDB
- **Platforms**: GCP, AWS
- **Others**: REST, gRPC, GraphQL, Linux, Design Patterns, OOP, MultiThreading, Distributed systems

Personal Projects

- **Bumpi Bot on Solana blockchain**: Developed an automated trading bot for trending pump.fun tokens on the Solana blockchain. Integrated with Hypersol.xyz, allowing users to configure campaigns to promote tokens. The bot executed timed buy-sell transactions based on user-defined parameters, generating measurable profit during its operation.
- **Reinforcement Learning based Substitution Cipher Decoder (Reinforcement Learning)**: Developed Multi-Processed Ensemble method, based on Genetic Algorithm to decode the encrypted text. Tech: Python. (December '21)
- **Hologram Reconstruction (Deep Learning, Image Processing)**: Particle/Cells based Hologram reconstruction using Pix-To-Pix GAN's(Deep Learning). Tech: Matlab, Python, OpenCV, TensorFlow-Keras (May '21)

Publications

- **Journel: Optik Volume 247, 167946**: Published Research paper on topic: Fast and accurate autofocusing algorithm in digital holography using particle swarm optimization. Tech: Python, Matlab (December 2021)

Honors and Awards

- Delivered promotion un-stacking project saving 27% in marketing spend. Deliveroo - Oct-2025
- Awarded Make It Happen for VendorOnboarding Modularization in Myntra - JFM-Quarter, 2023
- Awarded Spot Award for implementing complex, automated flow of Capacity Management in Myntra - Oct, 2022
- Awarded Make It Happen for developing error less Vendor Onboarding Order-flow in Myntra - AMJ-Quarter, 2022
- Secured rank 23 among 5000+ competitors in (friendship goals) HackerEarth Deep Learning challenge - March, 2020
- Secured 938 AIR among 112097 candidates in GATE - 2019