

ASHUTOSH KUMAR YADAV

Software Development Engineer

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EDUCATION

B.E. Computer Science

Chitkara University, Punjab, India

07/2020 – 07/2024

CGPA: 9.4

EXPERIENCE

Razorpay Software Pvt Ltd, Bangalore

07/2024 – Present

Software Development Engineer

- Built the **Rize Incorporation Self-Serve Platform** from 0→1, scaling it to **600+ incorporations/month**, **1100+ payments/month**, reducing onboarding TAT from **48 hours to 2.5 minutes**.
- Designed and shipped **Conversational Onboarding** for Private Limited incorporations using **LangGraph**, **Supervisor & Domain Agents**, **GPT-4o**, Redis state management, and cyclic/acyclic agent flows—enabling **250+ successful onboardings** with highly accurate structured data extraction and automatic flow resets.
- Contributed **8+ reusable components** to the Modular Onboarding Framework, adopted across **8+ onboarding applications** to standardize UIs, validations, data models, and platform logic.
- Built **async lead-generation pipelines** using goroutine + queue delays (5s→10s→20s) with cron retries; collaborated with FE/SF teams to resolve **P0/P1 onboarding issues**.
- Re-architected **User-Service** (~2000 RPM) with **40+ API migrations to Go**, identifier-based proxy middleware, and goroutine-based parallelization, yielding **3× performance**.
- Fixed **email/phone update flows and invitation logic**, improving experience for **600+ users/month** and reducing **250+ monthly support tickets** with a redesigned update pipeline and edge-case validations.
- Built document-verification fraud checks using **OpenAI (GPT-4.1/4o/3.5) + Google Vision** (95% accuracy) and automated workflows via **MCP servers, RAG, agentic AI**, resolving **80+ security tickets in 4 days**.
- Added Grafana dashboards, alerts, runbooks, and logging/metrics with strong unit, integration, and E2E coverage.

Razorpay Software Pvt Ltd, Bangalore

09/2023 – 07/2024

Product Development Engineer – Intern

- Sole backend owner of the **Rize microservice**; integrated Marketplace, launched D2C+ community, and refactored architecture using **DDD** with **82% test coverage**.
- Improved reliability by fixing critical issues in **dedupe logic**, Redis flows, cron jobs, and core APIs.
- Automated merchant onboarding using **Google Vision + OpenAI**, delivering **92% accuracy**.
- Set up stage deployment pipelines using **Helm on Kubernetes**; fixed **Docker** image/version issues, resolved P0 incidents, and safely executed production DB changes.
- Built a scalable logging framework that reduced operational overhead and improved debugging velocity.

PROJECTS

NeuroVest — AI Stock Analysis Platform - AI-powered stock analysis MVP with RAG-based insights, sentiment analysis, FastAPI, OpenAI, ChromaDB, Redis, MySQL, and Docker. [GitHub](#)

Weather MCP — Go MCP: HTTP/SSE/stdio transports, LLM tool discovery, APIs, health checks. [GitHub](#)

Sorting Visualizer — Merge/Quick/Bubble/Selection/Insertion sorts. Tech: React, JS. [GitHub](#), [Live](#)

Face Recognition App — MediaPipe + OpenCV (60fps). Tech: Python. [GitHub](#)

SKILLS

- **Languages:** Golang, Java, C++
- **Backend:** Microservices, Distributed Systems, gRPC, DDD, SDK Development
- **Datastores:** MySQL, Redis, DynamoDB
- **Queues:** Kafka
- **Tools:** Git, Cursor, Ollama, Antigravity
- **Infra:** Docker, Kubernetes, Helm, Spinnaker, CI/CD
- **AI/LLMs:** Prompt Engineering, LLM Automation, Agentic AI, RAG, MCP Servers, LangGraph, Supervisor Agents
- **Obs & Testing:** Grafana, Prometheus, Logging, Metrics, Alerts, Unit/Integration/E2E

ACHIEVEMENTS

- Solved **200+ problems** on LeetCode, **100+** across GFG/other platforms.
- HacktoberFest 2021, Spark AR Hackathons — **4/4 PRs accepted** in one week; created AR filters for social apps.
- Built **40+ full-stack projects** (CRUD apps, Canvas tools).