Ritesh Godse

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EDUCATION

Vishwakarma Institute of Information Technology   **Pune, Maharashtra, India**
B. Tech. *Artificial Intelligence & Data Science Engineering*   *August 2021 – May 2025*
CGPA: 8.98

WORK EXPERIENCE

Graduate Trainee

PayU Payments, Pune, Maharashtra, India   *June 2025 - Present*
* Designed and implemented a service for generating the Daily Settlement Table, improving settlement accuracy by **35%** and reducing redundancy in storage by **40%**.
* Built an MCP-based communication service to interface with external BBPS systems, processing over 40,000 transactions per hour using Kafka and MongoDB.
* Developed an LLM-powered chatbot with RESTful integrations, reducing customer query resolution time by 25% and automating 40% of support tickets.
* Engineered a Recurring report scheduler for triggered system reports, integrated into CI/CD workflows using Jenkins and deployed on AWS, cutting manual intervention by **60%**.

Software Developer (Contract)

JPMorgan Chase & Co., Remote, India   *January 2025 - June 2025*
* Architected and developed a Java pipeline to migrate legacy datasets from Hadoop to Azure Delta Lake, achieving **2× faster throughput** and establishing a proof-of-concept (POC) framework later adopted for production scaling.
* Provisioned and deployed cloud infrastructure across DEV, PAT, and PROD environments using Terraform for **Infrastructure as Code** (IaC), reducing environment setup time by **65%.**
* Designed and integrated **contract-based APIs** with PactFlow, enabling seamless backward compatibility validation and reducing integration defects by **30%**.

PROJECTS

- **Map My Ganapati**,   Live
    * Developed a city-scale festival navigation web app enabling devotees to explore and find **150+ Ganpati pandals** with precise locations, aarti timings, and photos.
    * Built using Next.js, Firebase, and Leaflet.js (OpenStreetMap), achieving **99.9% uptime** and managing **5,000+ concurrent** users during peak festival hours.
    * Configured Infrastructure as Code **(IaC)** using AWS CloudFormation templates to ensure scalable, reliable deployment. Deployed the frontend on Vercel and backend on Firebase, **cutting hosting costs by 100%** compared to Google Maps API.
- **Sky-Link,**   GitHub
    * Engineered a Java-based Airline Reservation System implementing **OOP principles** and in-memory data structures (HashMap, etc.) for efficient flight search, seat allocation, and booking management.
    * Designed safe seat booking using synchronized access and concurrent queues, eliminating **race conditions,** and preventing double bookings across **100+ parallel transactions.**
    * Optimized data lookups through HashMap caching, achieving **O(1)** retrieval time and reducing average booking latency by **80%** compared to naïve list traversal.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, Shell Scripting, Node.JS, Next.JS, Express.JS, Pyspark, Mathematics
Libraries and Tools: Git, REST API, Flask, Docker, Jenkins, Grafana, Machine Learning, DataBricks, Kafka
Others: MongoDB, Vercel, Data Structures, OOP, Operating System, Computer Networks, AWS, ETL, CI/CD

CERTIFICATIONS

- IR4.0 Foundation by Microsoft & SAP   Link
- Micro1 Backend Development   Link
- Oracle SQL Databases   Link
- AWS Cloud Practitioner Essentials   Link

EXTRACURRICULAR ACTIVITIES

- **Vice President, NSS VIIT (2023–24):** Built and deployed a web app in 48 hrs. using open-source tech for event polling and awareness, engaging **3500+ users** and increasing blood donation count by **25%.**
- **Published** Research Paper at **IEEE** Conference, NIT Rourkela on **Next Word Prediction System using NLP**
- **Qualified** for **Google Hash Code 2022**, a team-based coding challenge focused on problem solving.
- **Conference Out**, TES-46 — **SSB (Service Selection Board)**: Among the **top 10** out of 400 cadets