Pulkit Agrawal

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Senior Software Engineer - IC4 with **9 years** of experience designing and developing scalable software solut

Technical Skills

Languages: Python, Golang, NodeJs, Java

Frameworks: Flask, FastAPI,Celery, Cobra, Flask-AppBuilder, Angular2, React, ExpressJs, Spring-boot, Gin

Databases: Mysql, MongoDB, Postgres, Neo4j, Redis, Cassandra

Core Concepts: Data Structure, Algorithms, Distributed System Design, Operating System

Other Technologies: REST APIs, Microservices, AWS, GCP, Docker, Kubernetes, Kafka, Rabbitmq, Airflow, Spark, Monitoring and Logging Stack, Consul and Vault, Ansible and Terraform, Swagger, TDD, CI/CD

AI Technologies: Prompt and Generative AI, Large Language Models, MCP protocoo, MCP Servers, AI Agents, ETL Pipelines

Experience

Snowflake - AI Data Cloud
April 2025 – Present
Staff Software Engineer — *Bengaluru, India*
- Developing ETL pipelines for Diagnostic data analysis

BitGo - Digital Asset Management
May 2024 – Present
Staff Software Engineer — *Bengaluru, India*
- Leading the Global Travel Rule project, enabling seamless digital asset withdrawals across different countries while adhering to local regulatory requirements.
- Developed a **risk scoring service** aimed at mitigating money laundering and terrorist financing activities.
- Architected the **KYC verification flow using Persona**, implementing multiple data pipelines to synchronize KYC status events with Snowflake.

PhonePe - UPI Payments
April 2020 – April 2024
Lead Software Engineer — *Bengaluru, India*
- Architected and developed microservices that powered seamless transactions for PhonePe's vast user base, ensuring high scalability and reliability.
- Built a scalable User Profiling service using a graph model (nodes and edges) that supported diverse use cases across the organization, enhancing data relationships and insights.
- Led the design and development of critical **Identity (Authentication/Authorization)** and **Notification** microservices, boosting security and user engagement.
- Built the **PPEC Cloud API Architecture** for efficient cloud resource provisioning across distributed data centers.
- Developed a Change Management system, cutting production outages by **50%** and boosting deployment stability.
- Prototyped integrations with **Ollama** and **OpenAI** models for AI-driven project solutions.
- Designed an **Asynchronous Architecture** using Celery, RabbitMQ, and Airflow, enhancing system performance and throughput.

Rapido - India's Largest Bike App
April 2019 – April 2020
Software Engineer — *Bengaluru, India*
- Developed **Coupon/Subscription** and notification microservices, supporting **5M+ rides daily**.
- Migrated infrastructure from VMs to Docker/Kubernetes, reducing costs by **40%**.
- Implemented a comprehensive logging, monitoring, and alerting stack, enhancing production visibility.

Tricon Infotech
July 2016 – April 2019
Software Engineer — *Bengaluru, India*
- Performed sentiment analysis on Twitter and news articles using GCP NLP API, Neo4j, and built **Matching Engine** with Fuzzy Logic (**90% accuracy**).
- Developed workflows and data pipelines with **Apache Airflow**, and implemented live event streaming analytics.
- Provisioned AWS infrastructure with Terraform and developed REST APIs using TDD in Node.js/Flask.
- Built a microservices-based web app using the MEAN stack and created a reusable **Authorization API** with OAuth2 and JWT.

Education

Krishna Institute of Engineering and Technology   **Jul. 2012 – May 2016**
Bachelor of Technology in Computer Science   *8.5 CGPA*

Achievements

- **Employee of the Quarter Award** in Q3 2018 for outstanding performance.
- Contributed as a **Medium** writer, publishing blogs on various technologies and concepts.