Rahul Choudhary
Senior Senior Backend & AI Engineer

SUMMARY

- Senior Backend & AI Engineer with 7+ years designing scalable, low-latency distributed systems and GenAI platforms in YC-backed and enterprise environments.
- Expert in Python, FastAPI, Django/DRF, and event-driven microservices, specializing in resilient, self-scaling cloud-native backends using AWS, GCP, and Kubernetes.
- Proficient in Agentic RAG pipelines, LangChain, LLM inference (Ollama/VLLM), vector databases, and real-time data pipelines for fintech and AI-driven applications.
- Led teams and architected high-throughput data systems ensuring 99.9% uptime during transaction spikes and optimized database performance with PostgreSQL, MongoDB, and advanced ORM techniques.
- Holds MCA and PGDCA degrees with a strong foundation in computer science, delivering end-to-end solutions across SDLC, CI/CD, Terraform, and security audits for global clients.

TECHNICAL SKILLS

Main Technical Skills	Python (7 yr.), FastAPI, Django REST framework (2 yr.), Flask (2 yr.), Celery
Programming Languages	Python (7 yr.)
Python Frameworks	Django REST framework (2 yr.), FastAPI, Flask (2 yr.)
AI & Machine Learning	LangGraph, NLP, ollama, RAG
Data Analysis and Visualization Technologies	Data Scraping (5 yr.), ETL Pipelines
Databases & Management Systems / ORM	MongoDB (2 yr.), MySQL, PostgreSQL (2 yr.), relational databases, SQLAlchemy (2 yr.)
Cloud Platforms, Services & Computing	Azure, GCP
Amazon Web Services	AWS Lambda (2 yr.)
Message/Queue/Task Brokers	Celery
Deployment, CI/CD & Administration	CI/CD
Virtualization, Containers and Orchestration	Docker, Kubernetes, Terraform
	FastAPI

SDK / API and Integrations	
Blockchain and Decentralized Software	Solana

WORK EXPERIENCE

Senior Backend Software Engineer - TicketWallet (YC Backed) (Scalable Backend Services and AI-driven Applications for TicketWallet)

Duration: May 2025 – Present
Summary:

- Development and architecture of scalable backend services for TicketWallet, a YC-backed startup focused on consumer products related to ticketing and fintech
- The project involves building high-throughput data pipelines and integrating AI/ML models for real-time ticket verification and transactional systems

Responsibilities:

- Architect scalable backend services ensuring 99.9% uptime during transaction spikes.
- Integrate complex ML models and LLMs into production-grade transactional systems.
- Design high-throughput data pipelines and distributed system integrations for real-time ticket verification and fintech workloads.
- Collaborate with founders to translate product vision into scalable technical roadmaps in a fast-paced YC environment.

Technologies: Python, FastAPI, AI/ML models, LLMs, Distributed Systems, Cloud-native architecture

Senior Software Engineer - iTechnoLabs (High-Performance Microservices Architecture at iTechnoLabs)

Duration: June 2023 – May 2025
Summary:

- Led the design and implementation of high-performance system architectures using modern microservices for enterprise-scale clients at iTechnoLabs
- The project focused on reducing system latency and technical debt while ensuring platform stability

Responsibilities:

- Led a team of Python developers, enforcing rigorous code-review standards and mentoring juniors.
- Designed modern microservices architectures to reduce latency and technical debt.
- Resolved complex technical bottlenecks and production anomalies to maintain platform stability.

Technologies: Python, Microservices, Code Review, System Architecture

Consultant Engineer - Freelance / Independent (Freelance Software Solutions and Automation Tools)

Duration: Jan 2019 – Present
Summary:

- Provided end-to-end software solutions for over 20 global clients, focusing on web scraping, automation, security audits, and cloud deployment
- Delivered high-quality projects with a focus on performance and security for clients in the US and Australia

Responsibilities:

- Strategized and delivered full SDLC software solutions for global clients.
- Engineered high-performance web scraping engines and automation tools bypassing detection algorithms.
- Performed security audits and implemented vulnerability patches for multi-tenant applications.
- Managed project lifecycles ensuring 100% timely delivery and superior user experience.

Technologies: Python, Web Scraping, Automation, Security Audits, Cloud Deployment

Software Engineer - CloudTale (Secure and Scalable Backend Systems at CloudTale)

Duration: Jan 2021 – May 2023
Summary:

- Developed secure and scalable backend architectures for high-concurrency web and mobile platforms at CloudTale
- Focused on optimizing database performance and maintaining mission-critical backend systems with seamless third-party API integrations

Responsibilities:

- Developed backend architectures using Django and Flask for web and mobile platforms.
- Optimized database performance integrating PostgreSQL and MongoDB with advanced ORM modeling.
- Maintained backend systems ensuring high availability and seamless 3rd-party API integrations.

Technologies: Python, Django, Flask, PostgreSQL, MongoDB, SQLAlchemy, Django ORM

EDUCATION

- **Master of Computer Applications (MCA)**
  Indira Gandhi National Open University (IGNOU)
  2019 – 2021
- **Post Graduate Diploma in Computer Application (PGDCA)**
  Indira Gandhi National Open University (IGNOU)
  2018 – 2019
- **Bachelor of Computer Applications (BCA)**
  University of Jammu, 1st Position Holder
  2015 – 2018