

Om Jaiswal

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Skills

Languages: Python, Go, JavaScript

Frameworks: Django, Django REST Framework, Flask, Gin, Next.js

Distributed Systems: Redis, RabbitMQ, Celery, gRPC

Cloud & DevOps: Docker, Kubernetes, AWS (EC2, RDS, S3, EKS), GCP (Compute Engine, Cloud SQL)

AI / Agent Systems: LangChain, Pipecat, LiveKit, Retrieval Augmented Generation (RAG)

Machine Learning: YOLO, CNN, Scikit-learn, TensorFlow

Experience

Backend Engineer — Ravan AI

Dec 2024 – Present

- Architected and implemented **Maya**, an AI Secretary, as a **7-service Go/Python microservices platform** using **gRPC, FastAPI, Asynq and LangGraph**; designed a tool-routing architecture exposing **50+ agent capabilities** through **2 LLM tools**.
- Architected and scaled **AI voice infrastructure**, including Agni's hybrid scheduler + queue architecture supporting **1,000+ concurrent calls**, with concurrency controls across LLM, WebRTC, telephony and infrastructure layers.
- Redesigned **CloserX's** asynchronous calling pipeline using **Django, RabbitMQ and Celery**, increasing outbound concurrency from **5 to 300 (60x)** and scaling to **50K+ AI calls/day** through distributed task processing and priority-based queuing.
- Designed and operated **fleet-based LiveKit infrastructure** for real-time Voice AI with geo-routing, manual overrides and self-healing, managing server capacity without Kubernetes.
- Architected and built **2 platforms end-to-end**, including a Shopify AI Agent and internal Analytics Dashboard; migrated production services from Docker-based deployment to **MicroK8s**.

Backend Developer (Freelance) — Cliniboost Inc

Oct 2024 – Jan 2025

- Architected **70% of backend infrastructure** using **Django REST Framework**, delivering **100+ production APIs** for healthcare workflows.
- Built **RBAC authorization system** and integrated **AdvancedMD EHR** to synchronize appointments, providers and medical records in real time.
- Implemented **MicroBlink-based ID verification** and deployed services on **AWS App Runner + RDS PostgreSQL** with **Secrets Manager**.

Django Backend Trainee — Medius AI

Jun 2024 – Aug 2024

- Built **40+ production APIs** for a new platform using Django REST Framework.
- Improved API scalability by offloading heavy workloads to background workers using **Celery and Redis**.
- Optimized **PostgreSQL queries** and implemented raw SQL scripts for data seeding and migrations.

Software Engineering Intern — KDataScience Solutions

Jul 2023 – Aug 2023

- Developed Python tool ingesting **1M+ Zendesk support tickets** into SQL databases with brand-level querying and analytics.
- Built automated pipelines to download and process **Amazon Video Central sales reports**.
- Automated **YouTube analytics data extraction and reporting** using OAuth APIs and scheduled jobs.

Projects

Raft Distributed Consensus Simulation — Go, gRPC

GitHub

- Implemented a full simulation of the **Raft distributed consensus algorithm** including leader election, log replication and node failure recovery.
- Built distributed nodes using **Go, Gin, gRPC and GORM** to simulate cluster coordination.
- Developed a **Next.js dashboard** to visualize cluster state transitions and monitor replication events in real time.

Skippit — Real-Time Hyperlocal Freelance Marketplace — Django, React Native

- Built real-time freelance marketplace where users post and accept tasks instantly.
- Designed backend using **Django REST Framework**; mobile client built with **React Native + Expo**.
- Implemented live location tracking using **Django Channels, Redis and WebSockets**.
- Used **PostGIS** for geospatial queries and Redis for caching; deployed on **Google Cloud VM**.

Metro Monitoring System — YOLO, Computer Vision

- Built computer vision system using **YOLO** to detect seat occupancy in metro coaches.
- Created dataset of **5,000 annotated images** using Roboflow and manual labeling.
- Designed automated alert system for incorrect seat usage and filed a **provisional patent**.

Education

B.Tech — Computer Science and Engineering (AI-ML)

2021 – 2025

Bharati Vidyapeeth's College of Engineering, New Delhi

CGPA: 8.2