

OM ANAND

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📍 Bhopal, MP, India

PROFILE

I am an execution-first developer focused on building scalable, real-world systems. Rejecting pure theory, I specialize in backend architecture, microservices, and AI integration. I am obsessed with delivery and performance, currently refining my DSA skills to build products for thousands of users. I thrive in unfamiliar domains, mastering new stacks rapidly to deliver functional solutions. I build systems that matter, prioritizing practical impact and robust engineering over academic metrics.

KEY EXPERTISE

Languages: Python, C++, JavaScript, SQL

Frameworks/Tools: FastAPI, Flask, Node.js, Express, React, Redis, MongoDB, SQL

DevOps/Other: Docker, Linux, Cloud & DevOps, REST API, Git/GitHub, Database Design, System Thinking

PROJECTS

RAG-Based Portfolio Website (omanand0.in) | *Python, FastAPI, VoxCPM, Redis, Qdrant* Mar. 2026 – Present

- **Semantic Caching Layer:** Optimized latency by 95% using Upstash Redis and Sentence-Transformers to cache and retrieve high-fidelity voice responses.
- **Microservices Orchestration:** Designed a modular architecture using Docker Compose, isolating the FastAPI backend from the inference engine for better fault tolerance.
- **Hybrid RAG Pipeline:** Developed an ingestion system using Qdrant (Vector DB) for context-aware responses, reducing hallucinations through refined retrieval strategies.
- **Deployment Pipeline:** Built a custom Python pipeline to pre-generate voice assets on local GPUs and sync embeddings to production VPS, balancing cost and performance.

Agentic AI Salon Management System | *React, Node.js, MongoDB, Express* Sept. 2025 – Present

- Architected an **Agentic workflow** to automate bookings and customer interactions via a natural language interface.
- Engineered autonomous agents to resolve scheduling conflicts and implement **dynamic slot allocation** for barbers.
- Developed modular agent pipelines for multi-step execution, ensuring system scalability and personalized user experiences.

AI-Powered Smart Job Outreach System | *Python, LLM APIs, FastAPI* Apr. 2025 – Present

- Built an AI-driven system that parses resumes and generates personalized cold emails for companies; Integrated LLM APIs for contextual email generation based on company data.
- Designed backend pipeline for file upload, parsing, AI processing, output; Implemented rate limiting & anti-spam strategies for scalability.

EDUCATION

Sagar Institute of Science & Technology Bhopal, India
B.Tech. - Computer Science & Engineering 2023 – 2027

Sree Ayyappa Public School Bokaro Steel City, India
Higher Secondary (12th) 2022

Bijendra Public School Purnea, India
Secondary (10th) 2020

PERSONAL INTERESTS / HOBBIES

Tinkering with CS, 3D Modelling