

BHUPESH CHANDRA JOSHI

Senior Gen AI Full Stack Engineer | Cloud Architect

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Innovative **Senior Full Stack Engineer with 10+ years of experience**, specializing in **cloud-native Gen AI architectures** and scalable distributed systems. Expert in building production-grade RAG pipelines, multi-agent autonomous workflows, and LLM-powered applications. Proven track record of leveraging **AWS ecosystems** to deploy high-availability APIs and microservices. Deeply committed to open-source excellence and high-performance engineering.

TECHNICAL SKILLS

Cloud & DevOps:	AWS (S3, Lambda, EC2, Bedrock), Docker, GitHub Actions, CI/CD, Kafka, Redis, Vercel
AI/ML:	LLMs, RAG Pipelines (LlamaIndex/LangChain), Vector Databases (Pinecone/Milvus), Prompt Engineering, Agentic AI
Backend:	Node.js, FastAPI, Python, TypeScript, Microservices, Monorepo Architecture, gRPC/tRPC
Frontend:	React.js, Next.js, Tailwind CSS, Three.js, Framer Motion
Databases:	PostgreSQL, MongoDB, Supabase, DynamoDB , MySQL

PROFESSIONAL EXPERIENCE

Senior Gen AI Full Stack Engineer | Open Source Lead 2015 – Present | Remote

- Architected and deployed scalable AI chatbot systems and **RAG pipelines** using FastAPI and Node.js, optimizing retrieval accuracy for large-scale datasets.
- Designed **semantic search workflows** utilizing embeddings and vector databases, reducing latency in high-traffic production environments.
- Implemented **event-driven architectures** using **Kafka and Redis**, ensuring seamless data synchronization across distributed microservices.
- Built and maintained production-ready REST & GraphQL APIs, integrating sophisticated AI logic with responsive React/Next.js frontends.
- Lead contributor to global open-source AI initiatives, focusing on **autonomous agent orchestration** and developer productivity tooling.
- Collaborated with global developer communities and promoted AI adoption initiatives in hackathon ecosystems.

KEY PROJECTS (AWS & HIGH-PERFORMANCE FOCUS)

Wellness AI (Gen AI & Voice) | [wellness-ai-topaz.vercel.app](#)

- Developed a voice-enabled wellness platform using OpenAI APIs and Node.js.
- Optimized media storage and delivery using **AWS S3** and implemented serverless logic for real-time processing.

Email OTP Microservice (Security & Performance)

- Engineered a high-throughput OTP service leveraging **Node.js, Redis, and Helmet.js**.

- Implemented rate-limiting and security layers to mitigate brute-force attacks in distributed environments.

RentalFlow & Movie Recommendation Engine

- Built modern, full-stack applications with intelligent filtering and scalable backend integrations.
- Utilized **CI/CD pipelines** for automated testing and deployment, ensuring high availability.

EDUCATION

Bachelor of Technology (B.Tech) – Electronics & Communication Engineering

2011 – 2015

Graphic Era Hill University, Uttarakhand

ADDITIONAL HIGHLIGHTS

- Active contributor to open-source ecosystems and AI communities.
- Experienced collaborator in hackathons and developer innovation programs.
- Comfortable leading technical initiatives in remote and distributed engineering teams.