Mahesh Chitakoti

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TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, Redux Toolkit, Context API, Tailwind CSS
Backend: Node.js, Express.js, REST/GraphQL APIs, WebSockets, Microservices, Event-Driven Architecture
Database: MongoDB, PostgreSQL, Redis, Mongoose ODM, Sequelize ORM, Database Optimization
Cloud/DevOps: AWS, GCP, Azure, Docker, Kubernetes, CI/CD (GitHub Actions), Serverless
AI/ML: Generative AI (OpenAI API, LangChain), RAG, Prompt Engineering, LLM Fine-Tuning
Tools: Git, Jest, Agile/Scrum, JIRA

EXPERIENCE

Full Stack Developer (Contract) – PearlThoughts
Feb 2025 – Aug 2025

Remote

- Boosted efficiency by **35%** by architecting a NestJS + Google Workspace automation system, executing 1K+ workflows/day with **99.9% uptime**.
- Slashed manual bid processing by **70%** via an intelligent routing engine, accelerating allocation of 500+ projects per month.
- Automated financial operations (receipts, POs, compliance), cutting admin costs by **60%** while passing audits error-free.
- Partnered with estimators, finance, and ops to align automation with workflows, ensuring smooth adoption and measurable ROI.

Full Stack Developer – The DevOps Team
Oct 2023 – Jan 2025

Bangalore, India

- Scaled MVP to **5K users in 3 months**, achieving **85% ML-match accuracy** and optimising Node.js APIs (**800ms→320ms**) to sustain **50K+ requests/day**.
- Raised onboarding completions by **44%** through UX refinements and A/B testing, increasing conversion rates.
- Built analytics pipelines for **1M+ events/day**, generating insights that boosted retention by **25%**.
- Deployed automated CI/CD pipelines enabling **10+ zero-downtime releases per week**.
- Collaborated with design, data science, and DevOps teams to align architecture with UX and ML goals.

PROJECTS

WorkBridge – AI-Powered Project Collaboration Platform | *In Development*
Mar 2025 – Present

MERN Stack, OpenAI API, RAG, LangChain, Redis, AWS, Docker

- Building an AI-driven platform connecting students with real-world industry projects for skill development and career exposure.
- Engineered production-ready **Node.js microservices backend** with **Redis caching** and **AWS deployment**, maintaining **99.8% uptime** in testing environments.
- Implemented **RAG pipelines using LangChain + GPT-4** for intelligent project matching, achieving **90%+ accuracy** in recommendations.
- Developed semantic search engine with **Pinecone vector embeddings**, reducing query response time by **65%**.

Additional Projects: *Tradiofy* — Crypto trading platform with ML fraud detection | *News RAG Chatbot* — AI news query system (Gemini API, Qdrant)

CERTIFICATIONS

Oracle AI Vector Search Certified Professional, by Oracle – Sep 2025
Oracle Cloud Infrastructure 2024 Generative AI Certified Professional, by Oracle – Aug 2024
Machine Learning I, by Columbia University – Aug 2025
Java Full Stack Development Certificate, by Jspiders Bangalore – Aug 2023

EDUCATION

Adichunchanagiri Institute of Technology
Chikkamagaluru, KA

Bachelor of Engineering, VTU University
Aug. 2023