

# Vishnu Mishra

AI Architect · Full-Stack Lead Developer · LLM & Multi-Agent Systems

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## SUMMARY

AI Architect and Full-Stack Lead Developer with 10+ years building scalable distributed systems and production-grade AI applications. Specialized in LLM-based systems, multi-agent orchestration, and AI-driven automation. Proven track record of designing and deploying GenAI solutions using LangGraph, DeepAgent, and AWS, serving enterprise use cases across maritime, insurtech, fintech, and gaming.

## CORE AI & LLM EXPERTISE

- ▶ LLM Development (RAG, Agents, Tool Use)
- ▶ Multi-Agent Systems (LangGraph, DeepAgent)
- ▶ Prompt Engineering & LLM Orchestration
- ▶ AI System Design & Production Deployment
- ▶ AI Observability & Evaluation (Langfuse)
- ▶ Retrieval-Augmented Generation (RAG)
- ▶ LLM Monitoring & Optimization
- ▶ AI Workflow Automation (n8n, MCP)
- ▶ Scalable AI Backend Systems

## EXPERIENCE

### AI Architect / Full-Stack Lead Developer

Jul 2023 – Present · 2 yrs+

**Windward** · Full-time · Remote (London, UK)

- ▶ Designed and deployed **multi-agent AI systems** using LangGraph and DeepAgent for maritime predictive intelligence.
- ▶ Built LLM-powered pipelines integrating multiple tools, APIs, and data sources; implemented AI observability with Langfuse.
- ▶ Architected scalable backend microservices supporting enterprise AI workloads for global clients.
- ▶ **Won 1st place** at Windward Hackathon 2025 — end-to-end AI automation platform using MCP, n8n, and Jira.

**Tech:** Node.js, TypeScript, Python, LangGraph, Langfuse, DeepAgent, Bedrock, AWS, PostgreSQL

### Technical Lead — AI & Backend Systems

Jul 2022 – Jul 2023 · 1 yr

**Roadzen** · Full-time

- ▶ Built AI-powered InsurTech platform — **AI risk scoring (RSA)**, video-based damage detection, and automated claim settlement.
- ▶ Designed scalable backend integrating AI inference workflows; led architecture and roadmap for team of 6.

**Tech:** Node.js, Python, React, AWS, AI/ML pipelines, Microservices

### Lead Software Engineer

Nov 2017 – Jul 2022 · 4 yrs 9 mos

**FreeUp** · Full-time · Remote (Florida, US)

- ▶ Led engineering for US freelance marketplace — owned microservices design, platform scalability, and feature delivery.
- ▶ Introduced event-driven architecture with **Kafka and RabbitMQ**, improving throughput and fault tolerance at scale.

**Tech:** Node.js, React.js, MongoDB, Kafka, RabbitMQ, Microservices

### Backend Engineer (SDE-3)

Jan 2020 – Dec 2020 · 1 yr

**Pocket Aces — Loco** · Full-time · Bengaluru

- ▶ Built personalized homefeed recommendation system for **30M+ users** with sub-100ms latency using DynamoDB and Redis.
- ▶ Implemented server-driven UI architecture enabling real-time user flow updates without app releases.

**Tech:** Node.js, DynamoDB, Redis, Elasticsearch, Server-Driven UI

### Early Career — Full-Stack & Backend Developer

2014 – 2017

**EQTribe** · ThoughtWorks · TECSOL Software · Bengaluru

- ▶ Built full-stack products (WebRTC, gRPC, serverless) at EQTribe; delivered enterprise software with Agile/XP and TDD at ThoughtWorks; built REST APIs and auth systems at TECSOL.

## KEY AI PROJECTS

### Multi-Agent Maritime Intelligence System

- ▶ Built LLM-powered multi-agent architecture using LangGraph and DeepAgent for complex reasoning across maritime data sources.
- ▶ Delivered predictive intelligence platform for enterprise clients — real-time vessel risk scoring and anomaly detection.

### AI Workflow Automation Platform

Windward Hackathon 2025 — 1st Place

- ▶ Built end-to-end automated feature-building system using Claude CLI, MCP, n8n, and Jira integration.

### AI-Powered InsurTech Platform

- ▶ Developed automated risk scoring and claim settlement system with AI/ML pipelines for image and video analysis.

## TECHNICAL SKILLS

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<b>Languages</b>	JavaScript (ES2022+), TypeScript, Python
<b>AI / GenAI</b>	LangGraph, Langfuse, DeepAgent, LLM Integration, Bedrock, MCP, RAG Pipelines
<b>Backend</b>	Node.js, NestJS, Express.js, REST, GraphQL, gRPC
<b>Frontend</b>	React.js, Next.js, Angular
<b>Cloud &amp; DevOps</b>	AWS (Lambda, EC2, S3, DynamoDB, SQS), Docker, Serverless, n8n
<b>Databases</b>	PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch
<b>Architecture</b>	Microservices, Event-Driven, Distributed Systems, System Design
<b>Messaging</b>	Apache Kafka, RabbitMQ, AWS SQS

## HONORS & AWARDS

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- ▶ **Windward Hackathon 2025 — 1st Place**
- ▶ Peerbuds Hackathon — Winner
- ▶ Unicorn Cryptothon — Winner
- ▶ Code Husk by Venturesity — Prize Winner

## EDUCATION

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- BCA — Computer Software Engineering**  
**University of Madras** 2014–2017
- Diploma — Computer Science**  
**Guru Nanak Dev Polytechnic** 2011–2014