

VISHAL YADAV

Senior Backend Engineer · Generative AI · Serverless & Microservices · Cloud AWS / Azure

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PROFESSIONAL SUMMARY

Backend Engineer with 5+ years of experience designing scalable serverless architectures and AI-powered systems on AWS and Azure. At Arm Holdings, built production-grade RAG pipelines, serverless microservices (Lambda, API Gateway, S3, RDS), and LLM-integrated backend services using Node.js and TypeScript. Independently shipped a GenAI portfolio featuring a real-time RAG chatbot. Proven expertise in cloud-native backend development, event-driven architecture, prompt engineering, vector search, and payment integrations. Comfortable leading teams, driving code quality, and delivering complex projects end-to-end in Agile environments.

TECHNICAL SKILLS

Languages	Node.js, TypeScript, JavaScript (ES6+), Express.js, PHP
Generative AI	RAG, Azure OpenAI, GPT-4 / GPT-3.5, Prompt Engineering, Vector Embeddings, Semantic Search, Document Chunking, LangChain
Cloud & Infra	AWS Lambda, API Gateway, S3, RDS, DynamoDB, EC2, SQS, SNS, CloudFront, Firebase, SAP BTP, Azure OpenAI Services
Databases	PostgreSQL, MySQL, MongoDB, SQL Server, DynamoDB, Elasticsearch, Redis, Kibana, Logstash
APIs & Arch	REST, GraphQL, Microservices, Event-Driven Architecture, Apache Kafka
Payments	Stripe, Razorpay, PayPal, Twilio, Docusign, Web3 / Blockchain
DevOps & Tools	Git, Bitbucket, CI/CD Pipelines, Jenkins, AWS CLI, Jira, Agile / Scrum
Testing	TDD, Jest, PHPUnit, SonarQube, Manual Testing, Test Automation

PROFESSIONAL EXPERIENCE

Software Engineer – Backend & Generative AI · Innovify · Client: Arm Holdings

Feb 2025 – Present

► Serverless Backend Services

- Architected and deployed production-grade serverless microservices on AWS Lambda, API Gateway, S3, Dynamo and RDS powering Arm's enterprise backend workflows at scale.
- Designed event-driven, scalable backend APIs in Node.js and TypeScript for automated decision-making and high-throughput data processing pipelines.
- Built an AI-powered prediction scoring microservice using GPT-4 integrated into Arm's internal tooling, reducing manual decision review effort significantly.
- Integrated Azure AI Services and multiple LLM APIs to embed intelligence into backend services beyond standard chatbot use cases.

► RAG System for Enterprise Knowledge Retrieval

- Designed and implemented a full end-to-end RAG pipeline for Arm Holdings enabling contextual, accurate enterprise knowledge retrieval across large internal document repositories.
- Integrated Azure OpenAI (GPT-4) for context-aware response generation; engineered document chunking, embedding generation, and vector similarity search pipelines.
- Developed Node.js orchestration APIs connecting embedding layer, vector store, document retrieval, and LLM response generation in a cohesive, maintainable architecture.

- Collaborated with cross-functional stakeholders to align AI system outputs with enterprise requirements and security standards.

Technologist – Backend Engineer · Kratin Software Solutions · Client: Lunajoy Health *Apr 2024 – Feb 2025*

- Led end-to-end backend development of Lunajoy Health's appointment booking platform, improving booking efficiency by 30%.
- Deployed and optimized serverless functions on AWS Lambda, DynamoDB, S3; managed patient data on Amazon RDS + PostgreSQL, cutting data retrieval time by 25%.
- Integrated MongoDB for large-scale flexible storage; implemented HIPAA-compliant PDF viewer for medical reports and insurance cards.
- Delivered Stripe tokenization and payment gateway integration, increasing successful payment completion rates by 20%.

Technology Lead – Node.js · Mobiloitte Technology Pvt Ltd *Oct 2023 – Apr 2024*

- Led backend team across multiple concurrent projects — managed task allocation, architecture decisions, code reviews, and conflict resolution.
- Delivered HOVR NFT Marketplace (Node.js + Web3 + Stripe), Restaurant App (PayPal), Thabo Event Management platform, and a Crypto E-wallet end-to-end.
- Built real-time social media sync service and scalable backend foundations for multiple simultaneous client deployments.
- Mentored junior engineers in Node.js patterns, API design best practices, and Agile workflows.

Sr. Software Developer · Mckinsol Consulting Inc. *Feb 2021 – Aug 2023*

- Designed and deployed backend APIs in Node.js, AWS Lambda, S3, DynamoDB and PHP across multiple client projects on BTP Cloud, DigitalOcean, and Firebase.
- Delivered projects for Under Armour, GXP, and PVH — built HR Portal, SAP Request Management, SpotYourDeal, and SmileADay crowdfunding platform.
- Integrated Razorpay payment gateway; handled end-to-end payment flow design, error handling, and reconciliation.
- Performed code reviews, enforced engineering best practices, and collaborated directly with client stakeholders across distributed teams.

PERSONAL PROJECTS

◆ **GenAI Personal Portfolio with RAG Chatbot** · *Self-initiated · 2026–Present · vishal-portfolio-neon.vercel.app*
End-to-end AI-powered portfolio with a real-time RAG chatbot answering recruiter queries about background, skills, and projects.

Stack: Node.js, Azure OpenAI (GPT-4), Vector Embeddings, Semantic Search, Vercel, REST API

- Independently designed and deployed a full-stack AI-powered portfolio hosted on Vercel, demonstrating end-to-end GenAI product ownership.
- Built a RAG-based chatbot from scratch — document chunking, embedding pipeline, vector similarity search, and LLM response generation using Azure OpenAI / GPT models.
- Covers the complete stack: from vectorization and semantic retrieval to API design and frontend integration.

CERTIFICATIONS

- IBM – What is Data Science (Coursera)
- IBM – Data Analysis with Python (Coursera)

CORE COMPETENCIES

Serverless Architecture · Generative AI & RAG · Cloud-Native Backend (AWS / Azure) · LLM Integration · API Design & Microservices · Vector Search & Embeddings · Event-Driven Architecture · Payment Integrations · Team Leadership · Agile / Scrum