

BHAVYA BANSAL

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Summary

Full-stack engineering leader with 7 years building and scaling products from 0→1. Currently building agentic AI systems—including a document processor and Model Context Protocol (MCP) integrations. Deep Node.js/TypeScript background across microservices, distributed systems, and cloud infra (AWS/Azure/Kubernetes).

Technical Skills

AI Engineering: Large Language Models (Claude/Anthropic, GPT-4, Gemini, AWS Bedrock), Model Context Protocol (MCP), Agentic Workflows, GraphRAG, LangChain, LlamaIndex, Vercel AI SDK, vLLM, DSPy, pgvector, Evals (PromptFoo, RAGAS)
Languages: Node.js, TypeScript, Python, Java, Go (Golang), SQL, JavaScript
Infrastructure & Cloud: AWS, Azure, Docker, Kubernetes, CI/CD Pipelines, Microservices
Core Competencies: Technical Product Management, High/Low-Level System Design, Cross-functional Leadership

Experience

Traversia Technologies Pvt. Ltd.

New Delhi, India

Sr. Software Development Manager

Oct 2024 – Present

- Architected **Crux layer (Single API interface solution)** for **Hotel, DMC (Destination Management Company), PG (Payment Gateway)**, a high-concurrency API aggregator integrating over 50+ major providers, establishing robust data orchestration to seamlessly handle **1M+ daily requests** at **99.9% system uptime**.
- Design and deploy advanced AI search capabilities utilizing Hybrid Search and RAG pipelines, reducing contextual data retrieval latency to sub-200ms for partner enterprise platforms.
- Orchestrate the engineering roadmap for cross-functional travel verticals, elevating CI/CD pipeline governance and automated testing standards to reduce critical production bugs by 25%.
- Partner directly with B2B enterprise clients to validate market requirements and translate operational pain points into scalable technical architectures, accelerating client onboarding by 40%.

Easyres Travel Technologies

New Delhi, India

Head of Engineering

Apr 2023 – Oct 2024

- Spearheaded the zero-to-one engineering of a comprehensive B2B/B2C holiday package platform, scaling the architecture to support **100K+ concurrent users** with zero degradation.
- Reduced client infrastructure costs by 50%** through strategic cloud resource optimization (AWS/Azure) and the aggressive refactoring of legacy data ingestion pipelines.
- Defined product roadmaps for the Hotels and Holidays verticals, utilizing iterative prototyping to validate backend schema and API designs directly with key stakeholders.
- Instilled rigorous engineering best practices and agile methodologies across the organization, mentoring teams to accelerate sprint delivery velocity by 30%.

Lead Developer (Frontend)

Sep 2022 – Apr 2023

- Led the development of optimized MEAN stack frontend applications, utilizing rapid UI/UX prototyping to iterate on B2B client feedback, ultimately **reducing page load times by 30%**.

Geoinsighter

New Delhi, India

Lead Software Developer

Jan 2022 – Aug 2022

- Engineered a high-throughput GIS data pipeline capable of ingesting **2,000+ high-resolution images** per batch, distributing compute resources to rapidly deliver 3D terrain models.
- Designed a distributed batch processing architecture to handle **500+ concurrent mapping requests**, ensuring **99.9% uptime** for seamless data delivery.

Software Development Engineer (SDE)

Apr 2021 – Jan 2022

- Developed "Geo Mapper," a GIS data visualization platform enabling real-time rendering of complex orthophotos by integrating live video feeds with the Google Maps API.

MinedeniM

New Delhi, India

Founder

Apr 2018 – Jun 2020

- Owned end-to-end product lifecycle for a tech venture, from initial market validation and prototype iteration to full-stack execution, successfully acquiring initial beta users.

Independent Projects / Current Work

Travel Professor: Agentic Booking Concierge | Python, Go, LangChain, MCP, pgvector

2025 – Present

- Architected an autonomous travel agent integrating with the Crux API aggregator, enabling multi-step reasoning for real-time hotel discovery, price comparison, and itinerary generation.
- Built a custom Model Context Protocol (MCP) server exposing live B2B travel APIs to local LLMs, securely bridging private high-concurrency infrastructure with advanced reasoning models.

Adaptive Exam Engine & AI Grader | DSPy, GraphRAG, Node.js, vLLM

2026 – Present

- Engineered a mock-ETS adaptive testing platform using GraphRAG to map quantitative syllabus dependencies, allowing the AI to dynamically traverse knowledge graphs for targeted user remediation.
- Compiled a mathematically optimized Analytical Writing Assessment (AWA) grader using DSPy, aligning LLM output with strict 6-point scoring rubrics via automated prompt induction.

LLM Evaluation & Factuality Pipeline | PromptFoo, RAGAS, GitHub Actions

2025 – Present

- Designed a CI/CD-integrated evaluation framework to regression-test document processing agents against complex, unstructured domain datasets (e.g., 50-page vendor contracts).
- Enforced zero-hallucination deployments by measuring Context Precision and Faithfulness, configuring automated workflow triggers to block PRs that degrade agent reliability.

Education

Indian Institute of Technology Delhi (IIT-D)	Remote
<i>Chief Technology Officer Programme</i>	<i>Apr 2024 – Jan 2025</i>
Indian School of Business (ISB)	Remote
<i>Executive Programme in Product Management</i>	<i>Jun 2023 – Aug 2023</i>
Bharati Vidyapeeth College of Engineering	New Delhi, India
<i>Bachelor of Technology in Computer Science & Engineering</i>	<i>2017 – 2021</i>

Achievements

- Hackathon Winner:** Secured 1st Position in Hackathon at Munjal University for rapid prototyping and innovative problem solving.
- Mentorship:** Invited Mentor at Bharati Vidyapeeth’s HackBVP 2023, guiding student teams on scalable system design and agile methodologies.