

Anshul Kardam

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EDUCATION

Dr. Akhilesh Das Gupta Institute of Technology and Management

Bachelor of Technology in Computer Science and Engineering

New Delhi, India

CGPA - 8.15/10

EXPERIENCE

Fullstack Developer

Sept. 2024 – Present

Tirth.com

Remote

- Built and worked the entire platform from the ground up end-to-end including **frontend, backend, B2B panel, API layer, infrastructure, and deployment workflows**.
- Developed and shipped **AI features** including itinerary generation, Panchang intelligence, and a **RAG-based chatbot** powered by live platform data, leading AI initiatives across web and mobile.
- Integrated **Razorpay payments**, automated invoice generation, and implemented secure **AWS S3** image handling.
- Designed and maintained a custom admin panel and CMS to enable rapid content updates, and **built robust APIs** supporting booking and discovery features.
- Built and shipped the **React Native** mobile app, and maintained production and preview environments

Fullstack Developer

June. 2024 – Aug. 2024

Fuzzy Nodes

Remote

- Built and maintained **scalable hotel and flight booking APIs**, integrating third-party providers (HotelsOnline, Amadeus) into high-traffic core workflows.
- **Improved system reliability** by refining filters and shipping a AI voice support frontend powered by ElevenLabs.

FullStack Developer Intern

Nov. 2023 – Apr. 2024

Grapevine India

Noida

- Built reusable form components, improved UI consistency, and delivered core product flows by integrating backend APIs with the frontend.

PROJECTS

Docere | *Node.js, Fastify, TypeScript, PostgreSQL, Prisma, Valkey, BullMQ, Docker, Gemini AI, Next.js*

Github

- Designed and built a **production-grade AI learning platform backend** supporting courses, chapters, enrollments, progress tracking, and role-based access control.
- Implemented secure **cookie-based authentication** with access and refresh tokens, **RBAC**, and invite-only admin onboarding to enforce strict authorization boundaries.
- Developed an **AI-assisted tutoring and assessment system** using **Google Gemini**, enabling chapter-scoped AI conversations, test evaluations, per-question feedback, and confidence scoring with deterministic fallbacks.
- Architected an **asynchronous job processing pipeline** with **BullMQ and Valkey**, offloading AI grading and analytics to background workers for improved API responsiveness, fault tolerance, and scalability.
- Containerized API, worker, PostgreSQL, and Valkey services using **Docker and Docker Compose**, deploying on a VPS with environment isolation and production-ready service orchestration.

Knot | *Node.js, Fastify, TypeScript, MongoDB, Redis/Valkey, Docker, Nginx, JWT, CI/CD*

Github

- Designed and built a production-ready URL shortening and link management backend using **Fastify, TypeScript, and MongoDB**, supporting authentication, authorization, analytics, and high-throughput redirects.
- Implemented secure **JWT-based authentication** with refresh tokens, cookies, and role-based access control.
- Built a scalable analytics system using **Redis/Valkey** for real-time click tracking and background workers to asynchronously sync metrics to MongoDB, ensuring low-latency redirects.
- Containerized backend and worker services with **Docker and Docker Compose**, configured **Nginx + HTTPS (Certbot)**, rate limiting, centralized error handling, structured logging, and automated deployments via **GitHub Actions CI/CD** on a VPS.

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Python, React Native

Backend & APIs: Node.js, Express.js, Fastify, Hono, FastAPI, tRPC

Databases & Caching: MongoDB, PostgreSQL, Redis/Valkey, Mongoose, Prisma

AI / LLM Systems: LangChain, LangGraph, RAG, CrewAI

DevOps & Cloud: Docker, GitHub Actions, Nginx, AWS (EC2, S3, Lambda), Kafka, Turborepo