

Abhinav Bhardwaj

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EDUCATION

Indian Institute of Information Technology Una

Bachelor of Technology in Information Technology

Una, Himachal Pradesh, India

Nov 2022 – May 2026

INTERNSHIPS

Backend Software Developer Intern

Fastlit Accor Private Limited

May 2025 – Jun 2025

Remote, India

- Architected **cloud-native microservices** on **Microsoft Azure** using **Docker** containers to ensure **high-availability** and seamless deployment consistency across distributed environments.
- Leveraged **Azure Cosmos DB** for globally distributed, low-latency data storage, maintaining **near-constant uptime** and **enterprise-grade reliability**.
- Engineered robust **backend services** utilizing **asynchronous processing** to handle complex data workflows, significantly enhancing system throughput and overall **user experience**.
- Integrated **AI-driven performance optimizations** to analyze and streamline internal service calls, achieving **near-instantaneous response times** across critical API endpoints.
- Substantially decreased **production incidents** by participating in the **full SDLC**, including **proactive monitoring** and testing of the **modular microservices architecture**.

PROJECTS

Nexus-Knowledge | *React, FastAPI, LangChain, LangGraph, ChromaDB*

- Engineered a **SaaS-ready Knowledge Retrieval platform** utilizing a **RAG architecture** to transform unstructured PDF documentation into an interactive, real-time support assistant.
- Implemented an **Agentic Workflow using LangGraph** to manage complex state transitions and self-correction loops, enabling the AI to autonomously verify context before generating responses.
- Optimized semantic search by integrating **Gemini API embeddings** with **ChromaDB**, achieving **near-instantaneous retrieval** and sub-100ms latency for technical documentation.
- Architected a **fault-tolerant full stack** using **WebSockets** for streaming AI responses and **Docker** to ensure **production-grade consistency** across PostgreSQL and FastAPI environments.

Cloud-Sentry | *React, Node.js, Gemini API, AWS Lambda, Inngest, MongoDB*

- Developed an **autonomous cloud monitoring platform** utilizing the **Gemini API** to analyze real-time server logs and detect critical system failures with **enterprise-standard accuracy**.
- Engineered a **self-healing infrastructure** module using **Inngest background jobs**, enabling **automated remediation** of the majority of detected common service outages.
- Built a **high-concurrency dashboard** with **WebSockets**, providing **sub-second visualization** of system health metrics across multiple cloud environments.
- Implemented **predictive analytics** by processing historical incident data in **MongoDB**, enabling **proactive resource scaling** and significantly reducing unplanned downtime.

CERTIFICATIONS AND ACHIEVEMENTS

AWS Cloud 101 (Amazon Web Services, 2024) | **Generative AI Fundamentals** (Google Cloud, 2024)

Competitive Programming: 400+ problems solved — codolio.com/profile/Abhinav-Bhardwaj

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C++, Python, SQL, HTML5, CSS3

Frontend: React.js, Next.js 15, Redux, Tailwind CSS, Shadcn/ui, Framer Motion

Backend: Node.js, FastAPI, Express.js, RESTful APIs, WebSockets, Inngest, NodeMailer

Databases: Azure Cosmos DB, PostgreSQL, MongoDB, ChromaDB (Vector DB), Redis

Cloud & DevOps: Microsoft Azure, AWS, Docker, Kubernetes, Terraform, CI/CD, Linux

Tools: WebRTC, Git, Grafana, RAG (Retrieval-Augmented Generation), API Testing