VISHWAJEET KUMAR
Software Engineer | Full Stack

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PROFESSIONAL SUMMARY

Software Engineer with hands-on experience building backend integrations, GenAI workflows, and customer-facing full-stack features for production systems. Strong in REST APIs, databases, and cloud-native deployments, with experience integrating AI pipelines using LangChain and vector databases. Comfortable owning features end-to-end—from requirements and implementation to debugging production issues—while collaborating closely with product and customer-facing teams.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript (ES6+), C#
Computer Science: Data Structures & Algorithms (400+ problems), Object-Oriented Design, DBMS, Operating Systems
Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS
Backend & Integrations: Node.js, NestJS, Express.js, FastAPI, RESTful APIs, Webhooks, API Integrations, Microservices
Databases & Caching: PostgreSQL, MongoDB, Redis
Cloud & DevOps: AWS (EC2, S3, RDS), Docker, Git, CI/CD (GitHub Actions)
Testing & Quality: Unit Testing, API Testing, Debugging
Practices: Agile/Scrum, Sprint Planning, Code Reviews
GenAI: LangChain, RAG pipelines, Vector Embeddings

PROFESSIONAL EXPERIENCE

Software Developer Intern – StuFit Approach Pvt. Ltd., Lucknow (July 2025 – September 2025)
- Owned backend and integration features for a **production healthcare platform used by 2,000+ active users**, translating business and client requirements into deployable APIs.
- Designed and implemented **secure REST APIs** using **NestJS and PostgreSQL**, enabling role-based access and reliable data exchange between services.
- Built and maintained **API integrations consumed by frontend dashboards and internal systems**, ensuring consistent data flow and low-latency responses.
- Collaborated with **Product, QA, and customer-facing teams** in Agile sprints to scope features, validate workflows, and support go-live readiness.
- Implemented **unit and integration tests** and debugged production issues using logs and metrics, reducing recurring issues by **~20%**.
- Optimized database queries and backend logic, improving API response times by **~30%** for end users.
- Contributed to React/Next.js dashboards, integrating APIs into **user-facing workflows with a focus on usability and reliability**.

OPEN SOURCE CONTRIBUTIONS *(LangChain – Open Source Contributor)*

- Contributed to a **production-grade GenAI framework**, improving validation logic, error handling, and inference workflows.
- Added test coverage and collaborated with maintainers through structured code reviews, gaining exposure to **real-world GenAI deployment patterns**.

PROJECTS

AI-Powered Code Review & PR Analysis System *(FastAPI, OpenAI / Gemini, RAG, Vector Embeddings)*
- Built a **GenAI-powered code analysis system** using **LangChain and RAG pipelines** to evaluate pull requests for quality, complexity, and potential risks.
- Implemented **embedding-based retrieval** to generate contextual, developer-friendly insights from historical code and documentation.
- Designed the system for extensibility and API-based integration into CI workflows.

Distributed URL Shortener *(Node.js, PostgreSQL, Redis, AWS)*
- Designed and implemented a high-performance URL shortening service optimized for low-latency redirects.
- Implemented Redis caching, rate limiting, and abuse prevention to reduce database load and improve reliability.
- Focused on scalable API design and high-read traffic handling.

Real-Time Multiplayer Platform *(Node.js (Express), PostgreSQL, Redis, AWS)*
- Built a scalable real-time system with WebSockets for low-latency state synchronization.
- Implemented **Redis-based atomic state management** and deployed **stateless services on AWS**, enabling safe concurrency handling and seamless **horizontal scaling** under load.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science & Engineering (AI Specialization)
University of Lucknow | SGPA: 8.10 | Nov 2022 – Present