

# Priyank Tyagi

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## SUMMARY

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Final-year IT student and **full-stack engineer** who ships production web apps end to end — **React/Next.js** frontends, **Node.js** and **FastAPI** backends, and **PostgreSQL** data layers. Built multi-tenant SaaS with RBAC, optimized performance (**40%** latency cuts), and shipped via clean CI/CD, integrating AI features where they add value. **2 patents filed, 10+ hackathon wins.**

## TECHNICAL SKILLS

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<b>Languages</b>	JavaScript, TypeScript, Python, SQL, C++
<b>Frontend</b>	React, Next.js, Tailwind CSS, React Query, responsive UI
<b>Backend &amp; APIs</b>	Node.js, FastAPI, Hono, REST APIs, WebSockets, JWT / RBAC auth
<b>Databases</b>	PostgreSQL, MongoDB, Redis, Prisma ORM
<b>DevOps &amp; Cloud</b>	Docker, GitHub Actions (CI/CD), AWS, GCP, Vercel, Git
<b>AI Integration</b>	LLM APIs (OpenAI, Groq), RAG, vector search (FAISS)

## EDUCATION

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**College of Engineering Roorkee (COER)** — B.Tech, Information Technology *Expected May 2026 / CGPA: 7.8 / 10*  
*Coursework:* Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Machine Learning

## EXPERIENCE

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**Full Stack Developer** | AgroLogi Technologies *Sep 2025 – Feb 2026 / Remote*

- Built a multi-tenant Next.js application (RBAC, i18n, 3 markets) and cut API response times by **40%** through profiling and targeted Redis caching on critical routes.
- Designed and shipped backend services in FastAPI, including an ML inference endpoint that reduced detection latency by **35%** and improved accuracy by **25%**.
- Containerised all services with Docker and automated CI/CD via GitHub Actions (Vercel + Render), cutting deployment time by **60%**.
- Built a document-QA feature (FAISS retrieval + GPT-4) reaching **89%** accuracy on a 200-question evaluation set.

**Research Intern** | Indian Institute of Technology (IIT) Roorkee *Apr 2025 – Aug 2025 / Roorkee*

- Replaced static validator selection in a blockchain consensus protocol with a gradient-boosted ML model, improving throughput by **30%** and reducing block-confirmation latency by **20%** on a 20-node testnet.

## PROJECTS

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**AI Customer Support System** | *Hono, React, PostgreSQL, Prisma, Turborepo* [🔗 Code](#)

- Built a Turborepo monorepo (Hono API + React/Vite frontend) with PostgreSQL/Prisma persistence, real-time streamed responses, and full conversation history; routes inbound messages to specialised support, orders, and billing modules.

**ComponentForge** | *Python, Next.js, Vercel, Groq* [🌐 Live](#) [🔗 Code](#)

- Built a Next.js tool that generates Angular components in under **5 s**, enforcing design-system tokens through a 7-rule static linter and sanitising inputs to block injection attacks.

## ACHIEVEMENTS

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- Patents Filed (2):** *Green Nest* — AI-driven smart agriculture system (crop health, soil analytics); AI-powered IoT smart dustbin (waste segregation & real-time alerting).
- Google Gemini Campus Ambassador** — selected in the top **0.003%** of 30,000+ applicants.
- Winner** — Hack The Future 2.0 (Tula's Institute, Sep 2025); **2nd** — AlgoVerse (Microsoft · HackWithIndia-IGDTUW, Jul 2025); **2nd** — INNOWAVE (IIT Roorkee, Mar 2025).
- 250+** **LeetCode** problems solved across Arrays, Trees, Graphs, DP, and Sliding Window.