

Arnav Tiwari

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Professional Summary

Computer Science undergraduate who enjoys building real-world software, ranging from full-stack web applications to data-driven and AI-powered systems. Solid foundation in clean code, REST APIs, databases, and modern frontend frameworks, with experience working in Agile environments. Known for turning requirements into practical, production-ready solutions.

Education

Indian Institute of Information Technology Nagpur (IIIT Nagpur)

BTech in Computer Science Engineering

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript (ES6+), TypeScript, HTML5, CSS3

Frontend Development: React.js (Vite), Next.js, Redux, Framer Motion, Bootstrap

Backend & APIs: Node.js, Express.js, Django, RESTful APIs, Authentication & Authorization (JWT, bcrypt)

Databases & Data Modelling: PostgreSQL, MySQL, MongoDB, Drizzle ORM, Mongoose

Applied AI: LLM-powered Application Development, Google Gemini API, Razorpay API, Prompt Engineering

Cloud, DevOps & Tooling: Docker, Kubernetes, CI/CD, GitHub Actions, Vercel, Netlify, Git, GitHub, Postman

Engineering Practices: Agile/Scrum, Unit Testing, Modular Design, Code Reviews, API Performance Optimization

Professional Experience

Software Developer Intern

Hitachi India Pvt Ltd. | Nagpur, Maharashtra

- Developed and optimized Single Line Diagram (SLD) modules for power system visualization, improving analysis efficiency and system clarity.
- Worked with IntervalZero RTX64 RTOS to evaluate real-time integration for industrial automation systems.
- Contributed to large-scale Steel Manufacturing Industry platforms including- DPS (Digital Permit System), RCTMS (Roll Coolant Tank Monitoring System), PTMS (Pickling Tank Monitoring System), TTMS (Truck Turnaround Monitoring System), and ICQIS (Intelligent Coating Quality Improvement System).
- Designed modular, cross-platform components ensuring high reliability, scalability, and maintainability.
- Collaborated with senior engineers to analyze requirements and implement production-grade software solutions.

Full Stack Developer Intern

Payatu Security Consulting Pvt. Ltd. | Pune, Maharashtra

- Built responsive Next.js + SCSS interfaces, reducing page load time by 25% and improving UI maintainability.
- Developed and optimized MySQL-backed REST APIs, improving backend response time by 40%.
- Implemented 10+ interactive data visualizations to support real-time security analytics and reporting.
- Contributed to production-level code with 90% test coverage, following agile development practices.

Projects

Autopilot- AI Powered Project Planning Platform

Next.js, TypeScript, TailwindCSS, Express.js, PostgreSQL, Google Gemini, Groq SDK, OAuth 2.0

- Built a full-stack application that uses **multi-agent AI architecture** to automatically generate comprehensive project plans from high-level descriptions, including requirements analysis, tech stack recommendations, risk assessment, and detailed task breakdowns.
- Designed and implemented AI orchestration system with 4 specialized agents using Google Gemini and Groq SDK, coordinating through a RESTful API to process project specifications and generate execution-ready plans with confidence metrics and cost estimations.
- Delivered production-ready features including OAuth 2.0 authentication, PostgreSQL integration, multi-format exports (PDF/DOCX/JSON), analytics dashboard, i18n support, and modern glassmorphic UI with dark mode and accessibility compliance.

AI-Powered Content Generator Platform

Next.js, Clerk, Drizzle ORM, PostgreSQL, Tailwind CSS, TypeScript, Razorpay, Google Gemini API

- Built an **LLM-powered content generation platform** enabling users to generate high-quality content 70% faster than traditional workflows.
- Integrated Google Gemini API for AI-driven content creation with prompt optimization and response handling.
- Designed a scalable backend using PostgreSQL + Drizzle ORM, supporting 10,000+ monthly AI generations across 17+ dynamic templates.
- Implemented secure authentication, subscriptions, and payments using Clerk + Razorpay, increasing conversion by 35%.

Book Store – Personalised Book Collection Platform

React, Vite, Tailwind CSS, Node.js, Express.js, MongoDB, JWT

- Built a **full-stack book management platform** with 15+ modular UI components and responsive design.
- Developed RESTful APIs supporting CRUD operations and secure authentication using JWT and bcrypt.
- Implemented MongoDB schema validation and file uploads using Multer, ensuring data integrity.

Achievement, Leadership & Extracurricular

- Secured **97.6 percentile (AIR 22007)** in **JEE Mains** amongs 1M+ candidates.
- Core Member, Decor Club (IIIT Nagpur):** Collaborated across teams to plan and execute campus events under right timelines.
- Google Cloud Study Jam Participant:** Completed hands-on cloud learning program covering Google Cloud fundamentals training with practical labs.