

Hemant Batra

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Education

Maharaja Surajmal Institute of Technology

New Delhi, India

B.Tech in Computer Science - CGPA- 9.15

Sep 2022 - Sep 2026

- **Relevant Coursework:** OOPS, DBMS, Software Engineering, Operating System, Computer Networks, DSA, Advanced Java Programming, Programming with C and C++, Programming in Python, Web Technologies, AI/ML

Experience

Grabitts Softech Services

Remote

Software Engineering Intern

Oct 2024 - Dec 2024

- Re-engineered a billing system with ReactJS and Redux, enabling accurate bilingual (Arabic and English) invoicing, reducing overall invoice processing time by 40%.
- Crafted a pixel-perfect frontend for a perfume website's homepage using ReactJS and MaterialUI, translating Figma designs with 100% design fidelity and ensuring compatibility across all screen sizes.
- Improved product page UX by resolving missing product image issues through reverse-engineering the product API's image retrieval module.
- Conducted rigorous testing of components using Mocha and Chai, achieving 95% test coverage while adhering to industry-standard principles (KISS, YAGNI, DRY).

Projects

Radius LMS

Source Code

An AI powered learning management system SaaS app

Jan 2025 - Feb 2025

- Developed an AI-powered Learning Management System (LMS) SaaS application using Next.js, Tailwind CSS and Shadcn UI resulting in a 20% increase in user engagement.
- Integrated Gemini 2.0 Flash model via Inngest serverless functions to automate study content creation (notes, flashcards, quizzes) etc. reducing content generation time by 75% and freeing up time for personalized student interaction.
- Designed and implemented a robust database schema in PostgreSQL (NeonDB) using Drizzle ORM to efficiently manage user data, study materials, study types, and payment information, leading to a 15% improvement in query performance.
- Ensured secure user authentication and context management across the application using Clerk, resulting in zero reported authentication-related issues during testing.
- Streamlined payment processing by integrating the Stripe payment gateway, achieving a 99.9% transaction success rate.

Gruham

Source Code

A digital marketplace for buying, selling, and renting properties

Sep 2024 - Oct 2024

- Designed RESTful API's in Node.js and Express for managing user's profile and buyer-seller interactions and allowing 10+ functionalities like search, create, delete or update listings.
- Applied secure token based authentication and integrated Firebase for real-time data handling, ensuring data updates were reflected across all clients within 250ms, ensuring high-performance functionality in the app.
- Implemented Redux for efficient global state management and conducted comprehensive API testing using Postman, achieving 90% test coverage across all API endpoints.

Agraser AI

Source Code

AI chatbot, powered by Gemini's neural engine

Jul 2024 - Aug 2024

- Developed a mobile-responsive frontend using React and TailwindCSS with SPA architecture, implementing JWT authentication for secure user authentication and API endpoint protection.
- Designed and implemented 15+ APIs using Node.js and Express, adhering to SOLID principles for scalability and maintainability.
- Integrated Google Gemini Pro via API to implement features such as sentiment analysis, intent recognition, and contextual question answering, expanding chatbot functionality by 45%.
- Utilized MongoDB as a NoSQL database to persist user data and chat history, benefiting from its ability to handle unstructured data.

Skills

Programming Languages Java, Python, C++, C, JavaScript, Typescript, SQL

Development Tools VS Code, Pycharm, Postman, Inngest serverless, Vercel, Drizzle, Github

Technologies / Frameworks ReactJS, NextJS, RESTful API, NodeJS, MongoDB, NeonDB, PostgreSQL, ExpressJS, Redux, Clerk

Certifications and Achievements

2024 **Semi-Finalist**, Smart India Hackathon(SIH) 2024

2024 **Level 4 open source contributor**, Hacktoberfest 24

2024 **JavaScript Essential Training**, Linkedin Learning

2024 **Java: Advanced Concepts for High-Performance Development**, Linkedin Learning