

Pradeep Singh

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Education

Galgotias College of Engineering and Technology, B.Tech (IT)

August 2022 - August 2026

- **Coursework:** OOPS, DBMS, Data Analytics, Cloud Computing, Software Project Management

Experiences

Full Stack Developer Intern – Devient | WFH

Aug 2025 – Sep 2025

- **Assisted** in building and maintaining web applications using **HTML, CSS, JavaScript, and React.js**.
- Developed backend APIs with **Node.js** and **Express.js** to handle user data and authentication.
- **Implemented MongoDB** for data storage and retrieval.
- **Collaborated** with senior developers using **Git** and **GitHub** for version control.
- Tested features, fixed bugs, and improved the user interface based on feedback.

Skills

- **Languages:** TypeScript, JavaScript, Python, C/C++ , SQL, HTML, CSS
- **Artificial Intelligence:** LangGraph, LangChain
- **Frameworks and Libraries:** React.js, Next.js, FastAPI, Express.js, Node.js, Socket.IO, Pydantic
- **Databases:** PostgreSQL, MongoDB
- **Tools:** Git, GitHub, Postman, Hoppscotch.io, Sanity.io
- **Soft Skills:** Communication, Presentation, Team Collaboration, and Initiative

Projects

Klay Kolor - Color Prediction Game *Personal Project*

- Built a multiplayer real-time color prediction game platform with **React.js, Node.js, and Socket.IO**, supporting different live game modes and synchronized state updates.
- Engineered robust **WebSocket**-based architecture for bidirectional communication, managing concurrent game sessions, and dynamic round transitions with seamless UI updates.
- Developed a **Socket.IO** server with event-driven logic to manage real-time predictions, game phases, and result announcements, supporting hundreds of concurrent users.
- Built **RESTful APIs** for user balance management, game history retrieval, and transaction processing, integrated persistent storage using **MongoDB** with **query optimization**.

AI Tutor Orchestrator - Educational Tool Orchestration *Hackathon Project*

- **Collaborated** to build an **intelligent middleware platform** that enables students to access educational tools through natural conversation, eliminating the need to understand complex API schemas or tool configurations.
- **Reduced friction by 100%** – students simply express needs in plain language ("I am struggling with derivatives"), and the system automatically selects appropriate tools and parameters.
- Implemented **context-aware personalization** adapting to learning styles (visual/kinesthetic/auditory), emotional states, and skill levels, improving content relevance by customizing difficulty and depth.
- Delivered a **production-grade solution** with <5 second response times, comprehensive error handling, retry logic, and 90% + parameter extraction precision

The Karigar - Home Decor Portfolio *Client Project*

- Built a responsive website using **Next.js (App Router)**, and **Tailwind CSS with Shadcn/UI** for a modern, accessible design.
- Integrated **Sanity.io CMS** to dynamically manage blogs, projects, and testimonials.

Achievements and Certifications

- **AI Audit Week Finalist** – Developed and certified in **Solar Power Prediction** using **Machine Learning**.