

# VARUN CHOUDHARY

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## Skills

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|---------------------|---|
| <b>Programming:</b> | JavaScript, TypeScript, Python, C++, HTML, CSS                                  |
| <b>Frontend:</b>    | React (Hooks, Context API, Redux, Recoil), Next.js, Tailwind CSS, Framer Motion |
| <b>Backend:</b>     | Node.js, Express, REST APIs, Django, Flask, Redis, Kafka                        |
| <b>Databases:</b>   | MongoDB, PostgreSQL, Drizzle ORM  |
| <b>Tools/Cloud:</b> | Git, GitHub, Docker, AWS, DigitalOcean Vercel, Railway, Render                  |
| <b>Learning:</b>    | DevOps, Web3  |

## Experience

### Larc Ai

Nov 2025 – Jan 2026

#### Full Stack Engineer

- Designed and implemented the core routing logic for **LARC Router**, an AI system that dynamically selects the optimal **LLM** based on cost, latency, model capability, and developer-defined constraints.
- Built **scalable backend services** to orchestrate multiple language models, manage request flow, and aggregate responses using developer-provided API keys, ensuring high reliability and performance.
- Integrated **LangGraph** and **LangChain** to create flexible, stateful AI workflows and decision graphs for intelligent model evaluation and execution.

### Ignicul

Feb 2025 – Apr 2025

#### Frontend End Engineer

- Designed and implemented **scalable web apps** for a Web3-integrated gaming platform, enhancing user engagement.
- Built the main platform page using **Thirdweb SDK** for seamless wallet connectivity and Web3 interactions; integrated backend APIs for dynamic data fetching.
- Developed an **analytics dashboard** visualizing key metrics from backend APIs for platform performance monitoring.

## Projects

### ClassSync – AI-Powered School Management System

[GitHub](#) / [Live](#)

- Built a **nxt-gen MERN platform** integrating **Google Gemini AI** and **Redis** to modernize school administration.
- Delivered **AI-powered chat with PDFs** and a **secure, cookie-based authentication** system for seamless access.
- Designed a **scalable architecture** with role-based dashboards for **students, teachers, and parents**.
- Enabled **interactive communication**, allowing students to ask doubts directly to teachers and peers within the portal.
- *Demo Credentials:* Admin — [admin@gmail.com](mailto:admin@gmail.com) / admin, Student — [demostudent@gmail.com](mailto:demostudent@gmail.com) / demostudent

### Dodge Master – Multiplayer Browser Game

[GitHub](#) / [Live](#)

- Designed a **multiplayer survival game** with **React, Node.js, and Socket.IO**, supporting private rooms.
- Engineered a **real-time physics engine** with tick updates, collision detection, and dynamic game states.
- Developed **power-ups** like Shield, Freeze, and Slow, along with a responsive **scoreboard and HUD**.

## Education

### Netaji Subhas University of Technology (NSUT)

2023 - 2027

B.Tech in Electronics and Communication Engineering

## Achievements

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- Among the **Top 3 contributors** for GSoC 2025 at OSL Alpha One Labs.
  - **Solidus AI Hackathon 2025 — Top 100 Submissions:** built a web-based real-time lane-detection.