

Kunal

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TECHNICAL SKILLS

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

Frontend: Next.js, React, Tailwind CSS 4, TanStack Query, Framer Motion, Shadcn UI

Backend & Systems: Node.js, Express.js, AI Integration, Inngest (Background Jobs), RESTful APIs

Database & Core: MongoDB, Data Structures and Algorithms, System Design, SQL (PostgreSQL)

Developer Ecosystem: Antigravity (AI IDE), Git, GitHub, VS Code, Postman, Docker

PROJECTS

StockPulse: AI-Powered Market Engine | [GitHub](#) | [Live](#)

- Engineered a real-time stock tracking application using **Next.js** and **Finnhub API**, implementing **Inngest** for background job orchestration and price monitoring.
- Architected an **AI-driven sentiment analysis** module to generate predictive insights using advanced LLM integration.
- Implemented an automated **Price Alert System** via **Nodemailer** and managed data states with **MongoDB** for personalized watchlists.
- Built a high-performance UI with **TradingView** widgets and **Shadcn UI**, utilizing **Better Auth** for secure user authentication.

InsightOps: Knowledge Governance System | [Client](#) | [Server](#) | [Live](#)

- Engineered a governance platform to automate knowledge decay detection via time-based rules and **TF-IDF semantic drift** detection.
- Architected a **RAG** pipeline that retrieves internal documentation from the database to generate AI-powered responses.
- Developed a backend ecosystem featuring **31 APIs** and **25 custom hooks**, ensured by a suite of **89+ unit tests**.
- Built a polished **Next.js** interface with secure **Axios interceptors** for JWT refresh handling, featuring real-time risk dashboards.

Classroom: Institutional Management Hub | [Client](#) | [Server](#) | [Live](#)

- Built a full-stack hub with a **30+ component library** on **React** and **Tailwind CSS 4**, featuring strict **RBAC** for institutional roles.
- Integrated **Arcjet** for bot protection and **Better Auth** for session management, ensuring high-security standards.
- Developed a database layer with **Drizzle ORM** and **NeonDB**, automating enrollment via unique join codes.

EXPERIENCE

Prodigy InfoTech

Web Development Intern

- Architected responsive web interfaces using **React** and **Tailwind CSS**, prioritizing modularity and performance.
- Utilized **Shadcn UI** to ensure pixel-perfect design implementation across an intensive delivery cycle.
- Optimized **JavaScript** DOM interactions and received “Outstanding” remarks for technical execution.

InternPe

Java Programming Intern

- Engineered backend logic using **Core Java**, applying **OOP** principles to develop efficient software modules.
- Designed and validated complex **Data Structures** to resolve system-level algorithmic challenges.
- Recognized for maintaining professional standards and demonstrating high technical proficiency.

EDUCATION

College of Engineering Roorkee

Bachelor of Technology in Computer Science and Engineering