

# Satyam Prajapati

Portfolio | LinkedIn | GitHub | LeetCode

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## Full Stack Developer

Full Stack Developer with strong foundation in **MERN stack and Data Structures & Algorithms**. Built **5+ production-ready applications** integrating **AI APIs, payment gateways, video calling, and real-time notifications**. Solved **250+ DSA problems** on LeetCode demonstrating strong problem-solving and algorithmic thinking.

## Technical Skills

<b>Languages</b>	:	JavaScript, TypeScript, C++, SQL, HTML5, CSS3
<b>Frontend</b>	:	React.js, Next.js, Tailwind CSS, Framer Motion, Responsive Design
<b>Backend</b>	:	Node.js, Express.js, RESTful APIs, Prisma ORM
<b>Databases</b>	:	MongoDB, PostgreSQL
<b>Design &amp; Tools</b>	:	Figma, UI/UX Design, Git, GitHub, VS Code, Linux
<b>APIs &amp; SDKs</b>	:	Razorpay, Agora.io, OpenAI, Google Gemini, JWT, Socket.io

## Education

### KCC Institute of Technology and Management

Bachelor of Technology in Computer Science and Engineering – CGPA: 7.7/10

Greater Noida, India

Nov 2022 – May 2026

## Projects

<b>VetCare - Veterinary Telemedicine Platform</b>	Node.js, React, MongoDB, Socket.IO, Razorpay, Agora RTC	<a href="#">Source Code</a>
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- Built production-ready telemedicine platform connecting farmers with veterinary doctors featuring appointment scheduling, HD video consultations, post-consultation payment workflow, and automated medical report delivery via email and push notifications
- Architected scalable backend with **50+ RESTful APIs**, JWT authentication, role-based authorization, **12 MongoDB schemas** with compound indexing (95% faster queries), and **18% commission model** with automated earnings distribution
- Integrated **Socket.IO** for real-time notifications, **Razorpay** with HMAC verification and webhooks, **Agora RTC** for WebRTC video, optimized queries from **4.5s to 50ms**, deployed on **Vercel + Render** with CI/CD achieving **99.9% uptime**

<b>StudyHelper - AI-Powered Educational Platform</b>	React, TypeScript, Node.js, Express, OpenAI, Gemini API	<a href="#">Source Code</a>
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- Full-Stack AI Application:** Developed study assistant with **dual AI provider architecture**, automated quiz generation from PDFs, flashcards, and document summarization with **intelligent fallback mechanisms**
- Scalable Backend Architecture:** Built Express.js API with **JWT authentication, rate limiting**, and PDF processing pipeline. Implemented **structured prompt engineering** with JSON schema validation ensuring consistent responses
- Production Deployment & Performance:** Deployed on Vercel/Render, optimized with **caching and database indexing reducing response time by 40%**, achieving **98% uptime** in production

<b>SecondBrain - Knowledge Management Platform</b>	React 19, Node.js, Express, MongoDB, JWT, Framer Motion	<a href="#">Source Code</a>
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- Full-Stack MERN Development:** Engineered knowledge management platform with **React 19 frontend featuring neural network animations**, Express.js RESTful API, and MongoDB with optimized indexing for **efficient multi-content search**
- Advanced Authentication & Security:** Implemented **JWT-based authentication with bcrypt hashing (12 salt rounds)**, protected route middleware, and user data isolation with secure session management
- Modern UI & Performance:** Built responsive interface with **Framer Motion animations, real-time dashboard**, and dark mode using Tailwind CSS, optimized for smooth user interactions

## Open Source Contributions

<b>satyam-auth - NPM Package</b>	JWT, bcrypt, Express Middleware	<a href="#">Source Code</a>
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- Published authentication middleware on npm with JWT-based login/register, protected routes, and bcrypt encryption. Downloaded by **50+ developers** worldwide with comprehensive documentation.

## Achievements & Certifications

- Problem Solving:** Solved **250+ DSA problems** on LeetCode using C++ and SQL demonstrating strong analytical and problem-solving skills with focus on optimization
- Certifications:** Full Stack Web Development (100xDevs by Harkirat Singh), Data Structures and Algorithms (iNeuron.ai)
- Technical Impact:** Deployed 5+ production applications serving live users with integrations including Razorpay payments, Agora.io video calling, and OpenAI/Gemini AI APIs