

Sidhant Kumar

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EDUCATION

2023–present B.S. in Data Science at Indian Institute of Technology Madras (Online)
2022–2026 B.Tech in Computer Science at Techno India University (CGPA: 7.1)

SKILLS

Web Development	Flask, Next.js, Express.js, React.js, Node.js, Vue.js, React Router, Next.js App Router, REST API Development, Bootstrap, Tailwind CSS, shadcn/ui
Database Management	MongoDB, PostgreSQL, SQLite, SQL, SQLAlchemy, Database Schema Design
DevOps / Deployment	Git, GitHub, Vercel, Render
Languages	Python, JavaScript, TypeScript, Shell Scripting, Object-Oriented Programming

PROJECTS

[LensTales — Intelligent Photography & Storytelling Platform](#)

Tech: Vue.js, Firebase Auth, Firestore Database, Cloudflare CDN, REST APIs, Tailwind CSS, Vercel

- Engineered a **full-stack SaaS platform** for photographers to upload, manage, and publish photo stories, reducing portfolio creation time by **60%**.
- Integrated Firebase Auth + Firestore for secure multi-user access and scalable storage, supporting over **1000 images per user**.
- Implemented Cloudflare Images CDN, improving high-resolution image delivery speeds by **40–50%**.
- Added **AI-driven story generation** that converts metadata into captions, increasing content creation speed by **3×**.

[Vehicle Parking App](#)

Tech: Flask (REST APIs), Vue.js, SQLite, Redis, Celery, Bootstrap, Session Auth, Vercel

- Developed a cloud-based parking management system with automated space allocation and full booking history.
- Optimized real-time lot status using Redis caching, reducing dashboard load time by **40%**.
- Implemented **Celery + Redis for async tasks** like reminders, monthly reports, and CSV exports, decreasing report generation time by **80%**.

[Quiz Master v1](#)

Tech: Flask, SQLAlchemy, REST API, Jinja Templating, Bootstrap, Session Auth, Render

- Architected a modular Flask backend with session **authentication and role-based access control**.
- Built CRUD APIs for subjects, chapters, quizzes, and questions with secure relational mapping via SQLAlchemy ORM.
- Improved query efficiency and API latency by **35%** through optimized schema design.
- Deployed on Render with automated build and scalable API infrastructure.

CERTIFICATIONS

Certifications: Advanced Programming and Application Development (IIT Madras), **Diploma in Programming (IIT Madras)**, Java (HackerRank – Basics), SQL for Data Analysis (Coursera)