

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

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)