Siddharth Singh

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Portfolio

EDUCATION

2023 - 2027	B.Tech (ECE) at **Indian Institute of Information Technology, Sri City**	(CGPA: 8.51)
2022	Intermediate at **Guru Nanak English School, Varanasi**	(97.0%)

SKILLS

Languages	Python, TypeScript, JavaScript, C++, SQL, Kotlin, MATLAB
Frameworks	Next.js, React.js, Node.js, Express, FastAPI, Flask, Redux
Cloud & DB	AWS, Docker, PostgreSQL, MongoDB, Redis, Supabase, GCP
Engineering	System Architecture, Microservices, Queue Management (BullMQ), Real-time Analytics, RAG Pipelines, Zero-Knowledge Architecture
Tools	Git/GitHub, Postman, Vercel, Render, Figma

WORK EXPERIENCE

Software Developer Intern @ Onlearn.app   Jan 2026 – Present
- Driving product growth and user engagement strategies through full-stack development.
- Optimizing platform performance and implementing new features to enhance user retention.

SDE Intern @ Qbtrix Innovations   July 2024 – Aug 2024
- Developed **Interacly**, an interactive LLM-based platform, utilizing full-stack technologies to drive user engagement.
- Optimized backend API performance by 20% and integrated generative AI models for real-time, context-aware responses.

PROJECTS

ZENITH -AI-Powered Environmental Health Ecosystem   Live Link

Python, FastAPI, Azure OpenAI, Azure AI Language, Docker
Architected a personalized health protection platform for vulnerable users (Asthma/COPD) using **AzureOpenAI** for reasoning and **Azure AI Language** for medical entity extraction.
Implemented an intelligent RAG-based context engine that synthesizes real-time **Azure Maps** weather data with user medical history to predict health risks.
Engineered a robust **Safety Guardrail** system using Azure Content Safety to filter hallucinations and enforce clinical boundaries in AI responses.
Developed a "Time-Aware" chat interface capable of parsing temporal queries (e.g., "forecast for tomorrow") and delivering proactive safety alerts.

Mailflow - Distributed Email Automation Engine   Live Link

Engineered a scalable email automation platform handling bulk dispatching via **Redis message queues (BullMQ)** to decouple processing from the main API.
Architected a custom analytics engine using 1x1 tracking pixels to capture real-time open rates.
Solved critical cloud timeout issues by implementing connection pooling and retry logic for SMTP transport.
Stack: TypeScript, Node.js, Redis, PostgreSQL, Docker, Next.js.

CivicSimplifier - AI Legal Assistant (RAG)   [Live Link]

Built a production-ready **RAG SaaS** to simplify legal contracts using semantic search via **Cohere & Pinecone**. Engineered a distributed architecture using **React** (Frontend) and **FastAPI** (Backend) on Vercel and Render.

Dead Man's Switch - Legacy Protocol   [Live Link]

Implemented **Zero-Knowledge Architecture** with client-side AES-256 encryption to secure digital legacy data. Engineered a custom heartbeat monitor using Node-cron and a firewall-resistant notification system.

VectorShift - Pipeline Editor   [Live Link]

Developed an interactive drag-and-drop workflow editor using **React + ReactFlow**, backed by a **FastAPI** validation engine for automated logic verification.

ResumeBuilder - AI Powered   [Live Link]

Developed an AI-based resume generator using the **MERN stack** and OpenAI APIs, featuring personalized suggestions and responsive mobile design.

Car-Dekho - Rental Platform   [Live Link]

Built a full-stack rental platform with a personalized owner dashboard, real-time booking management, and secure payment integration.

SplitEase - Expense Tracker   [Live Link]

Engineered a group expense tracker with real-time ledger balancing and transparent transaction history for shared living scenarios.

LEADERSHIP

Android Dev Lead @ IOTA (Technical Society)	Aug 2025 – Present
Sponsorship Lead @ IIITS (Abhisarga/Utkrishta)	Oct 2025 – Present
Team Lead @ Web3SSH	Apr 2025 – July 2025