

# SIDDHARTH PATIL

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## SUMMARY

Backend Engineer with a strong foundation in Python and modern API development. Skilled in working with databases and Redis, and building scalable systems. Experienced in debugging issues, caching, and reliable solutions. Strong collaborator with cross-functional teams and effective in rapid prototyping. Fast learner and clear communicator.

## SKILLS

**Programming & Frameworks:** Python, Flask, FastAPI, Django, React, ORMs, REST API, JWT, Automation.

**AI & LLM:** LangChain, Async processing, RAG, Chat-bots, AI tools, Vector Databases, MCP.

**Backend Architecture:** Microservices, Monolithic systems, Async Operations, Background jobs, Caching strategies.

**Database and Tools:** SQL, SQLite, MongoDB, Redis, AWS Basics, Git, Celery, GitHub, Postman, Docker.

## EDUCATION

### D.K.T.E. College of Engineering

July 2021 – July 2025

B.Tech, Electronics and Communication Engineering, Maharashtra, India

GPA: 7.29

Relevant Coursework: Computer Protocols, Python and Automation, DBMS, Computer Networks, IoT & Systems

## PROFESSIONAL EXPERIENCE

### RSoftech, Hybrid: Backend Developer

Jan 2025 – Jun 2025

- Built and deployed scalable backend services using FastAPI/Flask with integrations for AI/LLM workflows.
- Improved throughput by optimizing API structure & queries, leveraging Redis caching and async capabilities.
- Designed microservice-based architectures and developed internal tools supporting API-first MVPs.

### Krutanic Solutions, Remote: Software Developer Intern

April 2024 - July 2024

- Implemented reusable logic and clean state-driven design for UI workflows simulating real-world product behavior.
- Applied frontend architecture concepts that enhanced understanding of API-driven backend communication.

### CSM Digital Technologies, Pune, Hybrid: AI and IoT Systems Engineer

Nov 2023 – Feb 2024

- Built Python automation scripts and tools for real-time sensor data handling and system control.
- Intelligent IoT by integrating data pipelines with AI models to enable context-aware decision making.
- Developed proof-of-concept IoT systems combining hardware interfaces with FastAPI backend.

## PROJECTS AND WORK

### Wi-Fi Local Network & Cloud Sharing App (FastAPI, Cloud DB , Next.js)

Built a cross-platform file sharing system that works seamlessly on local Wi-Fi networks and cloud for remote access.

- Designed a backend with secure APIs for real-time file transfer, authentication, and metadata management.
- Added security features- IP banning, rate limiting, and anti-SQL injection through input sanitization and escaping.

### EncryptO - Encryption as a service and full stack app, live at - <https://encrypto-by-sid.vercel.app>

Developed an encryption service that distributes up to 10k public API keys and full stack web encryption platform.

- Integrated key management workflows, enabling developers to embed encryption seamlessly (open sourced ).
- Built an API system allowing developers to integrate custom encryption into their own apps and manage API keys.

### QUERY-CRAFTER-CLI - pip installable, published at <https://pypi.org/project/query-crafter-cli/> - MIT license

A CLI tool that sits in the terminal and converts NL to queries across different frameworks in seconds

- Integrated multi-LLM provider support (OpenAI, Ollama) provides flexibility in choosing local or cloud models.
- Published and Well-maintained as a production-ready open-source package qcrafter on PyPI, enabling developers to generate database queries instantly with a simple `pip install query-crafter-cli`.

## CERTIFICATIONS AND AWARDS

- Certified in System Design via Scaler Masterclass.
- First Place in Startup Hackathon; received funding for MVP development.
- Special Mention (Runner-up) at IIMUN 2024/2025 – KIT Summits.