

SIDDHARTH PATIL

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SUMMARY

Engineer specializing in modern AI systems, context engineering, and scalable Python backends. Skilled in developing RESTful APIs, working with AI/LLM tools. Great with RAG, Redis, PostgreSQL, and conversational AI. Strong in debugging, prototyping, and collaborating with cross-functional teams. Fast learner and clear communicator.

SKILLS

Programming & Frameworks: Python, Flask, FastAPI, Django, React, ORMs, REST API, JWT, Async Operations.

AI & LLM: LangChain, Langsmith, Retrieval-Augmented Generation (RAG), Vector Databases (Chroma, FAISS), Prompt Engineering, Multi-Agent Systems, Orchestration, MCP, LM studio, Hugging face, Llama Index, Ollama.

Backend & Infra: Microservices, Celery, Redis, Databases, Docker, AWS (Basics), Git, Cloud Databases

EDUCATION

D.K.T.E. College of Engineering

July 2021 – July 2025

B.Tech, Electronics and Communication Engineering

Kolhapur, 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 – July 2025

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

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 Fast API backend.

PROJECTS AND WORK

AI Email Assistant (Extraction + LLM + RAG based)

Built a smart assistant that retrieves and summarizes emails using RAG pipeline over real Gmail inbox data.

- Integrated Gmail API (OAuth 2.0) to fetch and parse emails including unread, recent, and label-filtered content.
- Built custom RAG chain using LangChain and OpenAI to answer queries and performs procedural tasks

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

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

- Deployed the platform as a full-stack SaaS, ensuring scalability and real-world usability for developers
- 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) providing flexibility in choosing local or cloud models.
- Coherent features like reversals, explainers and suggestions with ultra low latency packed in a module.
- Published as a production-ready open-source package `qcraft` 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.