SIDDHESH AGARWAL

Software Development Engineer

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Portfolio | GitHub | LinkedIn | Blog

EDUCATION

Sri Krishna College of Engineering and Technology Coimbatore, India
Computer Science and Engineering | Bachelor of Engineering Nov 2021 - May 2025

EXPERIENCE

SKCET | Full-Stack Developer Coimbatore | Mar 2023 - Apr 2024
- **Built a User Portal** with features including a **Lab Inventory Management System** and **ID-based attendance** using **PHP, Laravel, and Blade**.
- **Created an Admin Portal** with **Bill management and PDF reporting** functionality using **Python and Streamlit**, automating the bill and report generation for audits.

IIT Madras | Junior WebOps Developer Remote | Mar 2023 - Jan 2024
- Was responsible for developing the API for certificate management and badge allocation.
- Worked with **Python**, **FastAPI**, **SQLAlchemy**, and **MySQL**.

SKILLS

Programming Languages:	Python, PHP, Golang, JavaScript, TypeScript, C/C++.
Frontend:	React.js, React Native, Next.js, Tailwind CSS, Bootstrap, HTMX.
Backend:	FastAPI, Django, Flask, Express.js, Node.js, Laravel, Firebase.
Databases:	PostgreSQL, MySQL, Redis, MongoDB, ElasticSearch, Neo4j, Pinecone.
ML / Gen AI:	Scikit-Learn, TensorFlow, Keras, HuggingFace, Transformers, LangChain.
Tools / Platforms:	Git, GitHub, Docker, Linux, AWS, Cloudflare, Vercel.

PROJECTS / OPEN-SOURCE

Newsful | GitHub *FastAPI, MongoDB, OpenAI*
- An advanced fake news detection system leveraging Agentic LLM packaged as a browser extension.
- Features a fully Async Backend API written in FastAPI with a caching system implemented using MongoDB.

matmath | GitHub | PyPI *Python, Poetry*
- A Python library for efficient matrix and vector operations.
- Has over 20K+ total downloads.

uploadid | GitHub | Live *Next.js, Supabase*
- A Web app for colleges/universities to track faculty participation and achievements.
- Made using Next 14, TypeScript, ShadCN UI, Tailwind CSS, Drizzle ORM, Zod, Clerk Auth.

Movies API | GitHub *Golang, Mux, Gorm*
- A Movies CRUD API with Gorilla Mux routers and form with SQLite for persistence.
- Also had file-based logging via slog and request caching.

CERTIFICATIONS

- **FreeCodeCamp** - Backend Development and APIs course and Python courses
- **Kaggle** - Data Science and Artificial Intelligence
- **Coursera** - AWS Certifications
- **HackerRank** - Python, CSS, JS and SQL

HONORS & AWARDS

- Won the 1st prize (Rs. 1,00,000) in the Kavach 2023 Hackathon conducted by " Ministry of Home Affairs " for the problem statement "Advanced Fake News Detection"
- Won the 1st prize ($200) in the PoweringSTEM 2023 Hackathon conducted by "PoweringSTEM"

VOLUNTEER EXPERIENCE

- Volunteered at "HyperVerge Academy" and helped 7 students learn HTML, CSS, JS and React.js
- Chosen as the **Secretary** of the **CRYOSAT Club (CSE Department)** at Sri Krishna College of Engineering and Technology