

KIRTHIVASAN M R

Mobile: 9360043505 | Email: kirthivasanmr@gmail.com | LinkedIn: [Kirthivasan M R](#) | GitHub: [Kirthivasan](#)

PROFESSIONAL SUMMARY

Backend focused engineering student with hands on experience building API driven, database applications using Python, Flask and PostgreSQL. Worked on real world academic and internship projects involving backend logic, REST APIs, data handling, and AI integrated systems. Actively preparing for Software Development Engineer roles with a strong interest in backend engineering and system design.

EDUCATION

Bachelor of Technology in Electronics and Communication Engineering

SRM Institute of Science and Technology | CGPA: 8.49

Jul 2023 – Apr 2027

SKILLS

Programming languages: Python, SQL, HTML, CSS, JavaScript

Backend: Flask, RESTful API, Node.js

Databases: PostgreSQL, Firebase

Libraries: OpenCV, Pandas, Matplotlib, Numpy

Tools & Platforms: Git, VS code, Docker

WORK EXPERIENCE

Shiksak.com

June 2025 - July 2025

- Worked on the VISE platform, a tool designed to connect startups with potential investors.
- Fixed critical back-end bugs in the VISE platform to enhance stability.

National Small Industries Corporation

Dec 2024 - Jan 2025

- Gained hands-on experience in industrial processes and small-scale manufacturing ecosystems.
 - Gained exposure to small-scale industrial processes and automation systems.
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PROJECTS

Orchestrix (*Hackathon winning project*)

Apr 2026 - Apr 2026

- Built an orchestrator-driven multi-agent system (FastAPI, React, PostgreSQL, Ollama) that automates research workflows from query → paper discovery → analysis → citations.
- Integrated Semantic Scholar/OpenAlex APIs and built context-aware paper Q&A, trend analysis pipeline, and multi-format citation export with execution traceability.

Invadr (*Hackathon winning project*)

Feb 2026 - Feb 2026

- Built an AI-based wildlife intrusion detection system that classifies animal species from captured images and stores geotagged sightings through a backend data pipeline.
- Developed REST APIs and a local backend to process field reports and power an admin dashboard with live map visualization and threat-level monitoring. (React Native, Twilio)

RightsPath

Nov 2025 - Nov 2025

- Developed a multilingual AI-powered legal assistant enabling citizens to access rights, laws schemes in English, Tamil, Hindi.
- Integrated RAG (ChromaDB, LLM API) with Flask and Firebase, delivering accurate, real time legal guidance.

Smart Notes AI

Mar 2025 - Jun 2025

- Built a full-stack web app using Flask, JS and Firebase for class notes processing and summary generation.
 - Integrated APIs to create summaries, MCQs and key questions with PDF export.
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CERTIFICATION

- ‘Certified Python programmer’ by Hacker rank, ‘Machine learning with python’ by IBM (coursera)