

SAKTHIVEL C

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PROFESSIONAL SUMMARY

Computer Science student specializing in full-stack development, machine learning, and IoT solutions. Proficient in Python, JavaScript, and SQL with experience building secure web applications using FastAPI, Next.js, and PostgreSQL. Proven ability to optimize system performance, develop RESTful APIs, and create real-time healthcare applications.

EDUCATION

Bachelor of Engineering in Computer Science	2023 – Present
Kamaraj College of Engineering and Technology, Virudhunagar, India GPA: 7.42/10	
Higher Secondary (Class XII)	2022 – 2023
K.V.S. Matriculation Higher Secondary School, Virudhunagar, India 63%	

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL

Frontend: Next.js, React, HTML, CSS, Flutter

Backend: FastAPI, Flask, Node.js, RESTful APIs

Databases: PostgreSQL, MySQL

ML/AI: Gen AI, TensorFlow, Streamlit

Tools: Git, GitHub, Jupyter Notebook, Arduino IDE, VS Code

Other: JWT Authentication, RBAC, IoT Integration, Data Analytics

PROFESSIONAL EXPERIENCE

Software Developer Intern	Dec 2025 – Present
PENTAGON GARMENTS, Virudhunagar, India	
<ul style="list-style-type: none">Developed secure verification system with RESTful APIs, JWT authentication, and role-based access control for security monitoring operationsOptimized monitoring dashboards and database queries, reducing server response time by 35%	
Machine Learning Intern	June 2025 – Nov 2025
PANITH INNOVATIONS, Remote	
<ul style="list-style-type: none">Gained hands-on experience in Supervised, Unsupervised, and Reinforcement Learning algorithmsAnalyzed real-world datasets to determine effective machine learning models for various industry applications	

KEY PROJECTS

Security Rounds Verifier | FastAPI, Next.js, PostgreSQL, JWT

- Architected full-stack security verification system with role-based access control and real-time monitoring workflows
- Delivered responsive frontend with Next.js, optimizing database queries to reduce response time by 40%

AI-Powered Dental Cavity Checker Python, Streamlit	July 2025
<ul style="list-style-type: none">Developed automated dental image analysis system using Python and Streamlit for real-time diagnosticsIntegrated Live APIs to deliver immediate feedback through secure encrypted login portal systemGitHub: github.com/sakthivel-136/Cavity-checker	

IoT Smart Air Quality & Climate Monitoring System	Nov 2025 – Present
<ul style="list-style-type: none">Creating Predictive Alert System identifying health risks and detecting HVAC inefficiencies using IoT sensorsUtilized IoT hardware and data analytics to provide actionable insights for room maintenance and safety	

ACHIEVEMENTS AND CERTIFICATIONS

Application of AIML for Crop Acreage Mapping	April 2025
<ul style="list-style-type: none">Issued by ISRO (Online Conference) for precision farming and yield prediction conference	
SkillRack Competitive Programming	Ongoing
<ul style="list-style-type: none">Successfully solved 101 problems across multiple programming domains with strong algorithmic skills	