

SAKTHI VEL C

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PROFESSIONAL SUMMARY

Computer Science student and Full-Stack Developer specializing in Machine Learning and IoT, with a focus on architecting secure, scalable systems using Python, JavaScript, and SQL. Proven expertise in building real-time healthcare applications with FastAPI, Next.js, and PostgreSQL, while optimizing RESTful APIs and implementing robust encrypted data architectures for sensitive, high-performance environments.

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

Languages & Databases: Python, JavaScript, SQL, PostgreSQL, MySQL, Supabase

Frontend Development: Next.js, React, HTML5, CSS3, Flutter

Backend & APIs: FastAPI, Flask, Node.js, RESTful APIs, Supabase Auth

AI & Machine Learning: Gen AI, LLM Integration, Mistral AI, TensorFlow, Streamlit

IoT & Specialized Systems: Arduino IDE, IoT Integration, Proctoring Systems, Data Analytics

Security & Tools: JWT, RBAC, Git, GitHub, VS Code, Jupyter Notebook

INTERNSHIP EXPERIENCE

Software Developer Intern	Dec 2025 – Present
PENTAGON GARMENTS, Virudhunagar, India	
• Developed secure verification system with RESTful APIs, JWT authentication, and role-based access control for security monitoring operations	

Machine Learning Intern	June 2025 – Nov 2025
PANITH INNOVATIONS, Remote	

KEY PROJECTS

VANTAGE – Autonomous AI Interview Intelligence Platform Next.js 14, FastAPI, Supabase, Mistral AI	JAN 2026
• Architected a full-stack AI interview platform featuring a 4-stage evaluation pipeline	
• Engineered real-time AI scoring using Mistral AI evaluating depth and contextual relevance	
• Live Demo: ai-interview-blue-eight.vercel.app GitHub: github.com/sakthivel-136/ai-interview	
Security Rounds Verifier FastAPI, Next.js, PostgreSQL, JWT	JAN 2026
• Architected full-stack verification system with RBAC and real-time monitoring	
• Optimized database queries reducing response time by 40%	
• GitHub: github.com/sakthivel-136/VANGUARD	
AI-Powered Dental Cavity Checker Python, Streamlit	July 2025
• Developed secure diagnostic system integrating APIs and authentication	
• GitHub: github.com/sakthivel-136/Cavity-checker	
IoT Smart Air Quality & Climate Monitoring System	Nov 2025 – Present
• Creating predictive alert system detecting health risks and HVAC inefficiencies	

ACHIEVEMENTS AND CERTIFICATIONS

- Application of AIML for Crop Acreage Mapping – Issued by ISRO (Online Conference) for precision farming and yield prediction
- Patent Application Filed for innovative project methodology and system architecture
- SkillRack Competitive Programming – 120+ Problems Solved covering Data Structures and Core Programming concepts