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

- Analyzed real-world datasets to determine effective machine learning models for various industry applications

KEY PROJECTS

VANTAGE – Autonomous AI Interview Intelligence Platform | Next.js 14, FastAPI, Supabase, Mistral AI   **2025**

- Architected a full-stack AI interview platform featuring a 4-stage evaluation pipeline (Aptitude, Coding, Behavioral, Technical)
- Engineered real-time AI scoring with Mistral AI, penalizing generic answers and evaluating depth, accuracy, and contextual relevance of responses
- Live Demo: ai-interview-blue-eight.vercel.app | GitHub: github.com/sakthivel-136/ai-interview

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**

- Developed a secure dental diagnostic system using Python and Streamlit, integrating APIs and authentication for immediate clinical feedback.
- GitHub: github.com/sakthivel-136/Cavity-checker

IoT Smart Air Quality & Climate Monitoring System   **Nov 2025 – Present**

- Creating Predictive Alert System identifying health risks and detecting HVAC inefficiencies using IoT sensors
- Utilized 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**

- Issued by ISRO (Online Conference) for precision farming and yield prediction conference

SkillRack Competitive Programming | 120+ Problems Solved   **Ongoing**