

# 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