

Francis Johan M

Final Year Engineering Student | Computer Science Engineering

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Professional Summary

Final-year Computer Science Engineering student with hands-on experience in **Python, Full-Stack Development, and AI/ML**. Built real-world applications involving NLP, cloud automation, and secure systems. Patent holder and published researcher seeking software or AI-focused roles.

Technical Skills

Programming: Python, C (Basics), C++ (Basics)

Web: HTML, CSS, React, TypeScript, Tailwind CSS

Backend: Flask, Node.js, Express.js, REST APIs

Databases: MongoDB, Firebase, MySQL

AI/ML: NLP, BART Model, Hugging Face Transformers, Computer Vision

LLM & Prompting: Prompt Engineering, LLM-based Automation

Tools: AWS, Git/GitHub, Docker (Learning), VS Code

Projects

SmartDoc Summarizer (AI/ML)

Python, Streamlit, Firebase

- Developed an AI-powered document summarization system using BART NLP model
- Supports PDF, DOCX, and TXT files with real-time processing
- Integrated Firebase Authentication and Firestore

Oracle Forensic System (AI/ML)

Flask, YOLOv8, BLIP, Docker

- Built an AI-powered forensic investigation platform for accident analysis
- Applied YOLOv8 for object detection and BLIP for image captioning
- Dockerized backend with MongoDB Atlas

Student Result Management System

Flask, MongoDB

- Designed a secure portal with admin and student modules
- Automated PDF result generation using ReportLab

Experience

Software Engineer Intern — Skillrank

Jul 2025 – Aug 2025

- Automated vehicle data entry workflows using AWS services
- Implemented LLM-based automation for intelligent processing
- Collaborated with an international remote team (USA)

Patent & Publication

Patent: Animal Sound Based Audiometry Testing System

Mar 2024

Patent No: **IN 202441022012**

Publication: SmartDoc Summariser AI

May 2025

International Journal of Scientific Research and Engineering Development

Paper ID: **IJSRED-V8I2P436**

Education

Higher Secondary & SSLC

Andrews Matric Higher Secondary School

B.E — Computer Science Engineering

2022 – 2026

Francis Xavier Engineering College, Tirunelveli

Languages Known

Tamil (Native) • English (Professional)