

# 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

**Backend:** Flask, REST APIs

**Databases:** MongoDB, Firebase, MySQL

**AI/ML:** NLP, BART Model, Hugging Face Transformers

**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

Francis Xavier Engineering College, Tirunelveli

2022 – 2026

## Languages Known

Tamil (Native) • English (Professional)