

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) <ul style="list-style-type: none">Developed an AI-powered document summarization system using BART NLP modelSupports PDF, DOCX, and TXT files with real-time processingIntegrated Firebase Authentication and Firestore	Python, Streamlit, Firebase
Oracle Forensic System (AI/ML) <ul style="list-style-type: none">Built an AI-powered forensic investigation platform for accident analysisApplied YOLOv8 for object detection and BLIP for image captioningDockerized backend with MongoDB Atlas	Flask, YOLOv8, BLIP, Docker
Student Result Management System <ul style="list-style-type: none">Designed a secure portal with admin and student modulesAutomated PDF result generation using ReportLab	Flask, MongoDB

Experience

Software Engineer Intern — Skillrank <ul style="list-style-type: none">Automated vehicle data entry workflows using AWS servicesImplemented LLM-based automation for intelligent processingCollaborated with an international remote team (USA)	Jul 2025 – Aug 2025
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Patent & Publication

Patent: Animal Sound Based Audiometry Testing System Patent No: IN 202441022012	Mar 2024
Publication: SmartDoc Summariser AI International Journal of Scientific Research and Engineering Development Paper ID: IJSRED-V8I2P436	May 2025

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)