




Babin Joe J


Software Developer


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PROFILE

Innovative professional with strong experience in **AI, software development, and robotics**. Experienced in **machine learning, web development, hardware interfacing**, and languages such as **Python, Java**. Familiar with **flight controllers, drone operations**, with proven ability to solve challenging problems and drive progress in **automation, autonomy, and smart systems**. Committed to delivering optimized, scalable solutions through **current, high-performance technologies**.

EDUCATION

Bachelor of Engineering

Jun 2022 - Apr 2026

Sathyabama Institute of Science and Technology

[CGPA - 8.4]

Major - Computer Science and Engineering

Minor - Artificial Intelligence and Robotics

Higher Secondary Education

Jun 2021 - Mar 2022

Holy Spirit School

[Percentage - 88.5%]

Physics, Chemistry, Mathematics, Biology

SKILLS

Programming Languages - **Python, Java**, Robot Programming (**VAL, KRL**)

Frameworks and Libraries - **Flask, Vosk, Yolo, TensorFlow, PyTorch, Scikit-learn, OpenCV, Numpy, Pandas**

Core Competencies - **Problem Solving, DSA, SQL, DBMS, 3D Technology and Printing, Product Design**

Artificial Intelligence - **Machine Learning, Deep Learning, NLP, CV**

Tools and Platforms - **Git, GitHub, VSCode, Eclipse, Postman, CAD, SolidWorks, Robodk, Canva, Arduino IDE, Tinkercad**

Other Skills - **Communication, Adaptability, Multi-tasking, Teamwork and Collaboration**

Languages - **English(Bilingual), Tamil(Native), Hindi(Intermediate), Spanish(Beginner)**

WORK EXPERIENCE

UAV Flight Navigation Engineer Intern - MachCent Aerospace Pvt Ltd.

Mar 2025 - Jun 2025

- Developed a software application to control the flight controller and integrate RTOS.
- Created a navigation control system to track UAV movement and location, and to mark waypoints.
- Trained a computer vision model for real-time human movement tracking.
- Engaged in integrating and connecting sensors with the flight controller.

CLUB ACTIVITIES AND AWARDS

PwC LaunchPad - Successfully completed the LaunchPad Program in Salesforce

Experimentation Hub SIST - Active Technical Team Member

Wadhwaani Entrepreneurship - Awarded Best Entrepreneurship Idea Pitch as part of a team (IGNITE 3.4).

UNIVERSITY PROJECTS

Fluent Edge

Developed an AI-powered web application using Flask and NLP tools that converts live speech to text, restores punctuation, detects grammatical errors, and analyzes accuracy percentage.

NeuroDoc

This offline AI application intelligently extracts and summarizes PDF and scanned document content using OCR, NLP, and layout analysis. It gives a structured overview, document categorization, and key points without access to the internet.

SonicScape

SonicScape is a mobile application designed to help visually impaired individuals navigate safely by detecting and interpreting surrounding sounds in real-time. It provides audio or vibrational alerts based on environmental noise, enabling on-the-go awareness without relying on vision.