

Sujay N B

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EXPERIENCE

SOFTWARE ENGINEER (Full-Stack Developer)

Jordan Guild Tech

Bangalore (Oct 2025 – Present)

- Built and deployed a **Dockerized FastAPI backend** with **MongoDB Atlas**, secure env configuration, and **GitHub-driven CI/CD**, powering an Expo (React Native) exam platform with ML-based question categorization.
 - Implemented authentication, payments, email services & ensured backend correctness using **pytest - API testing**.
- |Q-Prep <https://jgtechgroups.com> |

Freelance Developer

Mysore (Mar 2024 – Jul 2025)

- Delivered 10+ end-to-end client projects involving backend **APIs**, **ML inference**, and database integration, handling requirements, development and deployment
- | <https://sujaynb.github.io> |

PROJECTS

Fall Detector Based On Edge-Computing

(Python, JavaScript, Edge Computing, YOLOv8)

GitHub: <https://github.com/Sujaynb/fall-detection-edge>

- Designed Real-System system using YOLOv8, processing 25 FPS stream with <150ms edge inference latency.
- Achieved 94% detection accuracy on multiple scenarios, awarded **Best Poster Presentation** (JSSTU 2025)

Visual Speech Recognition

(CNN-LSTM, OpenCV, Media Pipe)

GitHub: <https://github.com/Sujaynb/Visual-Speech-Recognition-ML>

- Built real-time lip-reading system using CNN-LSTM, achieving 85% accuracy on 15,400 samples.
- Engineered TensorFlow-OpenCV pipeline with augmentation for low-latency real-time inference

Intelligent Fruit Quality Assessment System

(FASTapi, TensorFlow, MobileNetV2)

- Engineered a real-time web app using MobileNetV2 and Transfer Learning to classify 60+ fruit types.
- Model Predict shelf-life hours from user images a dual-model pipeline with input verification and binary health classification, generating interpretable freshness scores (0–100%) robust against invalid inputs.

Affordable Housing Inspection System

(Android, Java, SQLite, Camera-X)

- Offline mobile inspection app with GPS-tagged photography and local SQLite database. Implemented role-based access and automated report generation, reducing manual inspection time by 40%.

SKILLS

Languages: Python, JavaScript, Java, SQL

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

Databases: MongoDB Atlas, MySQL

ML / CV: TensorFlow, CNN, YOLOv8, OpenCV

Mobile / Frontend: React Native (Expo), Android (Java, XML)

Methodologies: CI/CD, PyTest, OOP, DSA, SDLC, Microservices, Agile Collaboration

EDUCATION

Master of Computer Applications (**MCA**) – CGPA: 7.6
Bachelor of Computer Applications (**BCA**) – CGPA: 7.2
Pre-University (**PUC**) –77.3%

JSSTU / SJCE, Mysore | 2025
NIE FGC, Mysore | 2023
Karnataka State Board, Mysore | 2018