

JAYADEV B S

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SUMMARY

B.Tech. Computer Science graduate (CGPA 9.07/10) with hands-on experience building and shipping software across mobile, backend, AI/ML, and embedded systems. Experienced with Flutter, Python, FastAPI, Firebase, TensorFlow, and ESP32, with projects spanning end-to-end product development, real-time ML inference, and cross-platform application development. Currently deepening expertise in backend engineering and AI/ML, while actively exploring new technologies and taking on challenging software engineering problems.

TECHNICAL SKILLS

Languages:	Python, Dart, Java, C
Application Development:	Flutter, Flet, Streamlit
Backend & Data:	FastAPI, Firebase, SQLite, REST APIs
AI / ML:	LangChain, TensorFlow, LLM integration
Tools:	Git, GitHub

PROJECTS

Wi-Fi CSI Human Activity Recognition

Python · ESP32 · TensorFlow · FastAPI · Flutter · Firebase

- Engineered an edge-based activity recognition pipeline from Wi-Fi Channel State Information captured on ESP32 devices, using a hybrid 1D-CNN + GRU model to classify walking, sitting, standing, and falling.
- Connected real-time model inference to a FastAPI backend, a Flutter monitoring app, and Firebase Cloud Messaging for live activity alerts.

Exam Hall Seat Allocator

Flutter · Dart · SQLite

- Developed the cross-platform Flutter desktop UI for an automated exam seating system, with streamlined data entry and dynamic drag-and-drop seat modifications.
- Engineered the frontend data layer to integrate with a Rust/Python backend through a synchronized SQLite pipeline for reliable state persistence.

ZenUnni - AI Student Assistant

Flutter · Firebase · REST APIs · LLMs

- Developed an AI-powered student productivity application combining LLM-assisted scheduling, chatbot interaction, habit tracking, mood logging, and task management.

Memno - Smart Link Saver

Flutter · Hive

- Built and shipped a cross-platform link-saving application with metadata previews, unique identifiers, search, and filtering for fast retrieval.
- Designed the application around lightweight local persistence and a clean, focused workflow for organizing saved links.

Additional Projects:

- Chamo QR: QR code generation and scanning utility (*Flutter, GetX*).
- Face Recognition with KNN: Real-time face recognition using facial embeddings and KNN classification (*Python, OpenCV, Scikit-learn*).

EDUCATION

B.Tech. Computer Science and Engineering

Oct 2022 to Apr 2026

Marian Engineering College · CGPA: 9.07 / 10 · Thiruvananthapuram, India

Class XII, KBHSE - Sr. Elizabeth Joel CSI EM HSS, 98.25% (2022) · Class X, CBSE - Bishop Pereira Memorial School, 91.8% (2020)

POSITIONS OF RESPONSIBILITY

Placement Coordinator

Feb 2023 to Apr 2026

Dept. of CSE, Marian Engineering College

- Coordinated placement activities for the department, organizing recruitment drives, technical talks, and mock interviews while managing communication between students, recruiters, and the placement cell.
- Acted as the primary student-facing coordinator, disseminating recruitment updates, collecting and verifying student information, and ensuring timely communication throughout the placement process.

ACHIEVEMENTS

1st Place in Frostcode Hackathon, CET (2023)

Team of 4

- Developed an AI-powered Gmail Autolabel application that used the Gmail API to classify emails based on AI-generated responses and automatically assign appropriate labels.
- Led the Flutter frontend development, integrating it with the Python backend to retrieve and present email data through a unified interface.