



Mishal Shanavas

Kochi, Kerala, India | +91 8848879060 | mishalshanavas@yahoo.com | [linkedin/mishalshanavas](https://www.linkedin.com/in/mishalshanavas) | [github/mishalshanavas](https://github.com/mishalshanavas) | mishalshanavas.in

EDUCATION

Sahrdaya College of Engineering and Technology
Bachelor of Technology in Computer Science and Engineering

Kodakara, Kerala, India
Aug. 2024 – May 2028

EXPERIENCE

Backend Developer Intern
GTech MuLearn, mulearn.org

Mar. 2025 – Present
Remote, Kerala

- Engineered and shipped 5+ production API modules for the MuLearn Launchpad platform, serving 60,000+ active learners across Kerala
- Designed and implemented JWT-based authentication, company onboarding workflows, and a job management system using Django and MySQL
- Deployed and monitored backend services on AWS EC2, S3, RDS, and CloudWatch

PROJECTS

KrishAI | *llama-cpp, Whisper-cpp, Piper TTS*

2024

- Built and deployed a fully offline, voice-based AI academic assistant on Raspberry Pi — a curriculum-aware smart speaker for school students
- Integrated Whisper-cpp for on-device speech recognition and Piper TTS for natural voice output with zero cloud dependency
- Deployed at KVUPS, Thrissur; students query curriculum content conversationally even without internet access

Sahrdaya College Official Website | *React, Next.js, Tailwind CSS*

2024

- Led the official migration of Sahrdaya College of Engineering and Technology's public website to Next.js — sahrdaya.ac.in
- Improved page load performance, and long-term maintainability for the institution's primary web presence

ACHIEVEMENTS

Winner — VITALS Hackathon

National, 2024

IEEE National-Level Hackathon, IEEE Sahrdaya Student Branch

Thrissur, Kerala

- Built an end-to-end deepfake video detection system using MTCNN for face extraction and EfficientNet trained on the FaceForensics++ dataset

Winner — ICTK Techathon

Kerala, 2024

State-Level Hackathon, ICTK

Kerala, India

- Built an AI-powered personalised course recommendation system for FYUGP elective selection across colleges in Kerala

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, Bash, C

Frontend: React, Vue.js, Next.js, Tailwind CSS

Backend: Django, FastApi, Express

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, DynamoDB, Firebase

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, CloudWatch), Docker, Nginx, Github Actions

AI/ML — Inference: Whisper-cpp (STT), Piper (TTS), OpenCV