

# MERVIN A

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## 2ND YEAR STUDENT

B.Tech Computer Science Engineering (AIML) student with hands-on experience in web development and software projects. Seeking a software engineering internship to apply and grow technical skills.

## EDUCATION

B.Tech – Computer Science Engineering (AIML)

2024-2028

Christ (Deemed to be University), Bengaluru

## WORK EXPERIENCE (PROJECT-BASED)

### Hackathon & Academic Projects | 2024 – Present

- Developed complete software solutions for project-based systems and web applications.
- Owned end-to-end software development and raw sensor data analysis for IoT projects.
- Collaborated in cross-functional teams during hackathons under strict time constraints.

## PROJECTS

### MuteBreaker – Sign Language to Speech

- Developed the complete software pipeline for a glove-based assistive system
- Analyzed and processed raw sensor data for gesture recognition and output generation
- Built a real-time web interface for text and speech output

### Python Mini Projects & Games

- Built multiple Python mini projects and games using OOP and core Python concepts
- Worked with Pandas, CSV files, Tkinter, Turtle, and basic SMTP functionality

### Mars Rover – Autonomous Navigation System

- Built a rover prototype with sensor-based obstacle detection and navigation logic
- Implemented AI-based path planning for uneven terrain
- Enabled real-time data transmission for monitoring

### Multifunctional Robot – Fire Detection & Human Follower

- Developed autonomous fire detection and response functionality
- Implemented human-following behavior using sensor data

## SKILLS

### Technical Skills

- Python, C
- React.js Web Development
- Tailwind CSS, PostgreSQL

### Core Concepts

- Object-Oriented Programming
- Data Structures and Algorithms

## **LANGUAGES**

- English (Fluent)
- Tamil (Fluent)

## **AWARDS**

- Winner – IoT HackFest (Thiran 2026)
- Winner – CHANDRAKSH 2K24
- Winner – TECH EXPO 2K24
- Participant – NASA International Space Apps Challenge 2025

## **INTERESTS**

- Hackathons & Technical Competitions
- Assistive Technology
- Web Development