

# Ziyan Saleem Hussain

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## Education

<b>NMAM Institute of Technology, Nitte, Udupi, India</b> – BTech. in Computer Science and Engineering	2022 – 2026
• <b>CGPA: 8.67</b>	
<b>St. Aloysius PU College, Mangalore, India</b> – Higher Secondary (Class 11–12); Physics, Chemistry, Mathematics, Computer Science	2020 – 2022
• <b>Aggregate: 90.8%</b>	
<b>Kanachur Public School, Mangalore, India</b> – Secondary Education (Class 10)	2010 – 2020
• <b>Aggregate: 77.2%</b>	

## Skills Summary

**Core Subjects:** Operating System, Computer Networks, Cloud Computing, Cryptography, Database Management System, Artificial Intelligence, Machine Learning.

**Development Languages:** C, C++, Python, Java, JavaScript, Fullstack Development.

## Projects

<b>Android ROS 2 Robot Controller – Project for Infineon Technologies</b>	2025
• Developed a native Android HMI for wireless control and monitoring of ROS 2 mobile robots as part of an industry-assigned Infineon Technologies project.	
• Designed a decoupled communication architecture using <b>rosbridge_suite</b> and WebSockets with a Dockerized ROS 2 backend.	
• Implemented manual teleoperation, real-time telemetry visualization, and automated mission execution using Excel-based path commands.	
<b>Local Guide App – Flutter + Firebase</b>	2025
• Built a travel and local guide app for Udupi and Mangalore using Flutter and Firebase Firestore.	
• Key features include category-based Browse, real-time data fetching, user contributions, and Google Maps integration.	
<b>Store Invoice System – Python + SQLite</b>	2025
• Developed a standalone desktop application for a local hardware store using Python, CustomTkinter, and SQLite.	
• Key features include full CRUD functionality for products/customers, automatic stock control, and PDF invoice generation.	
<b>Quicktionary – Dictionary Chrome Extension</b>	2025
• Created a sleek Chrome extension for instant word definitions using JavaScript, HTML5, CSS3, and DictionaryAPI.	
• Features include context menu integration, dark mode UI, history tracking via Chrome storage, and Manifest V3 compliance.	
<b>Student Manager – Spring Boot Application</b>	2024
• Built a student management system using Spring Boot with features for secure user authentication and efficient backend operations.	
<b>NMAMIT Pay – Frontend Web Application</b>	2023
• Developed a responsive banking interface using JavaScript and modern web tech for a seamless user experience.	

## Certificates

- NPTEL - Blockchain and its Applications
- NPTEL - Introduction to Japanese Language and Culture
- Machine Learning using Python and R Programming (Udemy)
- AWS Cloud Practitioner CLF-02 (Udemy)
- Java Spring Framework (Udemy)

## Activities

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**Member, Finite Loop Coding Club** — NMAM Institute of Technology 2023 – 2026

- Active member of the official coding club at NMAMIT, participating in competitive programming, problem-solving sessions, and technical discussions.
- Took part in multiple intra- and inter-college coding competitions, hackathons, and coding events during the academic years 2023–2026.
- Collaborated with peers to strengthen algorithmic thinking, debugging skills, and real-world problem-solving approaches.

**Student Office Bearer** — St. Aloysius PU College, Mangalore 2021 – 2022

- Led the Computer Science department and organized technical events and student initiatives during the academic year.