

# MIDHUN NATH K R

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## Projects

### Multilinguo

- **Description:** Developed Multilinguo, a MERN stack-based interactive language learning web app inspired by Duolingo, featuring quiz templates, structured learning courses, and gamified challenges to enhance user engagement and language proficiency

- **Skills Used:** MongoDB, ReactJS, NodeJS

### Real Time Traffic Detection

- **Description:** Developed a real-time traffic detection system, implementing a machine learning model to analyze lane-specific traffic density and dynamically adjust traffic signals for optimized flow and reduced congestion

- **Skills Used:** YOLO, OpenCV, TensorFlow, Python

## Skills

**Programming Languages:** Python, Java, C++, JavaScript, C#

**Web Technologies:** ReactJS, AngularJS, HTML, CSS, NodeJS,

**Other Skills:** Figma, PyTest

**CS Fundamentals:** Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems

**Soft Skills:** Communication, Team Collaboration, Problem-Solving

## Education

**Vellore Institute of Technology 2022 - 2026** • Computer Science spec in AI & ML | CGPA: **8.64** (expected)

**St Antony's Public School Kerala 2019 - 2021** • CBSE (Class XII), Percentage: 82%

**Arya Central School Pattom 2018-2019** • CBSE (Class X), Percentage: 95%

## Academic and Extracurricular Achievements

- 1st runner up in VIT Bhopal android club hackathon
- Participated in VIT Bhopal Buildathon
- Research paper on using Information Theory on Agriculture using AI

## Positions of Responsibility

**VIT Bhopal / Android Club** | Core member

- Led workshops on Android app development, teaching basics to advanced topics
- Collaborated with team members to develop club projects and demo apps