

# RICHARD JOSEPH

Computer Science Student, AI/ML Engineer

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## EDUCATION

### BTech in Computer Science | Year 2025

College of Engineering  
Trivandrum GPA- 9.5

### High School (CBSE) | Year 2020

Kendriya Vidyalaya No.1  
Kochi  
GPA – 95.6

## SKILLS

### EXPERIENCED

- Machine Learning
- Large Language Models
- LLM Fine Tuning, Embedding
- Stable Diffusion
- LoRa Model Training
- DSA
- UI/UX design, Figma
- C, C++, Python

### COMFORTABLE

- Java
- Express.js, Flask
- PSQL, MongoDB
- JavaScript, HTML, CSS

### ACQUAINTED

- Google Cloud
- ReactJS

## Roles and Experiences

### TinkerHub CET –

### Project Facilitator

### JAN 2023 - PRESENT

- Oversee end-to-end event execution and manage the coordination and organization of all club events.

### Internship Cell CET - Co

### Convenor FEB 2022 -

### PRESENT

- Oversee end-to-end event execution and manage the coordination and organization of all club

## CAREER OBJECTIVE

As a student, I'm dedicated to merging Machine Learning Engineering, Software Engineering, UI/UX Design, and competitive programming. I aim to apply advanced machine learning techniques to create user-friendly interfaces and excel in competitive programming, driving innovation and success in technology-driven roles.

## Awards and Achievements

### UST D3CODE TOP 5 Finalist – Honorary Mention

#### NATIONAL LEVEL HACKATHON 2023

- Reached finals after multiple rounds which included coding challenges and Generative AI project development

### CYIENTIFIQ Innovation League

#### GLOBAL HACKATHON 2023

- CYIENTIFIQ Value Innovation Prize in the Theme: Building Intelligent Products and Platforms in International Level Hackathon.

### Pradhan Mantri Bal Shakti Puraskar

#### National Child Award 2020

- Received the Award from the Hon'ble President of India at Durbar Hall. Award was given for Exceptional Achievements in the field of Science and Innovation by a student

### Intel ISEF Grand Award

#### Intel International Science and Engineering Fair 2019

- Received 2<sup>nd</sup> Grand award at Intel ISEF 2019 in Plant Science Category.
- Received MIT Lincon Laboratories Minor Planetary Honor

## PROJECTS

### MONITUS AI

#### SEPTEMBER 2023 - PRESENT

- A generative AI tool to generative Adverse Drug Reactions of a drug depending on patients' medical history
- This also takes into account the demographic the patient belongs to and gives the likelihood of severe ADRs
- Uses knowledge base embedding and fine tuning on LLMs to create predictions

### CASA AI

#### AUGUST 2023 - PRESENT

- A generative AI tool to generative Architectural Plans based on user requirements. Can give a 3D representation of the plans generated as well as optimize plans given by the user.
- Achieved through LoRa model Training on Stable Diffusion and 3D projection done using OpenCV and three.js.