

Joshua Mani Vinod
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BTech
Electronics and Communication Engineering
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GitHub Profile
LinkedIn Profile

EDUCATION

•National Institute of Technology, Calicut

CGPA: 8.40

BTech in Electronics and Communication Engineering

2021

2021-2025

•Navy Children School, Kochi

Percentage: 97.4

Physics, Chemistry, Math and Economics (A1 credit for all subjects)

EXPERIENCE

•Centre of Excellence in Artificial Intelligence

 $June\ 2024\text{-}Present$

 $Web\ development\ intern$

NIT Calicut

- Got an opportunity to work in the prestigious R&D Project 'SAMUDRA' sponsored by the MoE, Govt of India
- Worked on developing a Smart Decision Support System for Disaster Management focused on crowd and flood monitoring.

•Stanley Black & Decker, Inc.

May 2024-July 2024

Summer Intern Bangalore

- Created a ML model to classify tools into normal, abnormal or heavy used based on tools performance.
- Constructed a Python-based graphical interface that facilitated the classification of tools with ease; enabled team members to analyze data logs in under 5 minutes, eliminating previous 2-hour manual processes.

•AutoMicroUAS Aerotech

June 2023-July 2023

Artificial Intelligence Intern

Remote

Enhanced and customized UAV functionalities using dronekit-python and dronekit-sitl, developed AI-driven UAV control systems, designed efficient flight plans with Mission Planner and Python.

PROJECTS

• NIRNAI 🚱

Developed a full-stack web application for flood and crowd monitoring

- NextJS, Flask, TailwindCSS, Firebase, GCP, Postgres, Twilio-API
- In crowd monitoring, various scenarios like clogging, bottlenecks, and diverging are detected and analyzed in realtime, with each scenario being mapped accordingly.
- In flood monitoring, real-time data from the IoT system is transmitted to the web, and alert calls are triggered using the Twilio API.

• BookMySlot 🔗

A web application to Coordinate, Book and Confirm multiple meetings all at one place

- NextJS, TailwindCSS, Firebase, Kinde authentication
- Created centralized hub for coordinators to schedule meetings, while participants seamlessly book their slots and receive instant confirmation via email

• Student Status Tracker 🔗

March 2024

Comprehensive application designed to maintain a comprehensive log of students' club involvement and status.

- MongoDB, ReactJS, Node.js, ExpressJS, Bootstrap
- Provided functionalities such as Search, Pagination, Filter, Sort, Export To CSV, and more.
- Implemented all CRUD operations and incorporated validation checks to ensure users can seamlessly execute their tasks.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, JavaScript, Python, SQL

Developer Tools: VS Code, Postman, Jupyter Notebook, Git, Matlab **Frameworks**: ReactJS, NextJS, Express, NodeJS, TailwindCSS

Databases: MongoDB, PostgreSQL, Firebase

Soft Skills: Communication, collaboration, problem-solving, Organisation, teamwork **Coursework**: Microcontrollers, IoT, Machine Learning, Deep Learning for CV

Areas of Interest: Web development, AI/ML

ACHIEVEMENTS

- •Basketball: Captained the winning team in the Inter-Dept and represented NITC at the Nationals in Jaipur.
- •ICA (Media Head): Part of one of the best college clubs, learned how to manage a team.
- •Coding: Solved overall 500+ problems on Leetcode, GFG and other platforms (link)