Rohit Rajesh Nair

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👤 PROFILE

Enthusiastic and adaptable Front End Developer with a passion for continuous learning and professional growth. Competent in Python , SQL , HTML and CSS with a strong collaborative spirit and excellent problem-solving abilities. Seeking opportunities to leverage my skills and creativity in a dynamic team environment to achieve collaborative success.

🎓 EDUCATION

Bachelor of Technology - Electrical and Computer Engineering
Amrita Vishwa Vidyapeetom
08/2021 – 08/2025 | (9 CGPA) Kollam, India

Higher Secondary
Vidhyadhiraja Vidyapeetom
04/2019 – 05/2021 | (92.4%) Mavelikara, India

Secondary Education
Indian International School Dubai
03/2018 – 03/2019 | (86.2%) Dubai Silicon Oasis, UAE

🧠 SKILLS

SQL & Python Programming ●●●○○○

Full Stack Development ●●●○○○

HTML And CSS ●●●○○○

Time Mangement ●●●●●○

Leadership ●●●●○○

Creative And Innovative Thinking ●●●●●○

Team Management ●●●●○○

Effective Communication And Negotiation ●●●●○○

🧩 SELF INIATED PROJECTS

E commerce websites :- My Captain
09/2023 – 10/2023
Designed and developed a shoe-selling website with CSS, HTML, Bootstrap resembling **Amazon** and **Puma**. Conducted web scraping to enhance functionality, improving skills in front-end, UI/UX, and data acquisition.

📁 TEAM BASED INITIATIVES

A Blockchain-Powered Solution for Dynamic P2P Energy Trading
06/2024 – 05/2025
Built a user-friendly front-end interface to facilitate energy trading using Ethereum tokens and smart contracts. Enabled secure, real-time exchange of energy between producers and consumers .

3 Phase PWM Rectifiers :-Mini Project
05/2024 – 07/2024
Effectively completed a MATLAB **Simulink** project on three-phase PWM rectifiers.

Hospital Management :-Mini Project
06/2024 – 07/2024
Built a Hospital Management System for storing and managing databases. Used **Tkinter** ,**Python** & **SQL** for scalability, improving, and development methods.

Pharmacy Management Billing System :-Mini Project
01/2023 – 02/2023
Built a pharmacy billing software for streamlined transactions. Used **OOP** patterns for scalability, improving **Python**, **SQL**, and development methods

Autonomous Fire alarm :-Mini Project
01/2023 – 02/2023
Created autonomous fire hazard detection with alarm triggers. Integrated MOSFETs and Diodes for efficient temperature sensing.

Dyslexia in school going children :-(08/2022-07/2022)
Led dyslexia detection project amidst COVID-19 challenges. Managed data collection, built user friendly website with Azure API integration for image to-text conversion. Developed classification decision tree model, showcasing adaptability and innovation

Autonomous Robot :-Mini Project
06/2022 – 07/2022
A hardware simulation was conducted using Node MCU, enabling detection and directional reversal through ultrasound technology

📰 RESEARCH PUBLICATIONS

A Blockchain-Powered Solution for Dynamic Peer to Peer Energy Trading
Conference: SmartGenC04, 2025
25/06/2025
Status: Accepted for Publication
Role: UI Developer and Blockchain Integration Lead
Proposed and developed a decentralized framework for real-time peer-to-peer energy trading using blockchain technology. Designed a user-friendly front-end interface, integrated Ethereum smart contracts for secure automated transactions, and enabled IoT-based real-time monitoring of energy generation and consumption. This system improves transparency, promotes energy efficiency, and supports decentralized grid models.

📚 WORKSHOPS ATTENDED

VLSI DESIGN USING VERILOG :- Maven Silicon
02/2024 – 02/2024
Completed a 3-day VLSI design course using Verilog, mastering register-transfer level circuit design. Developed strong understanding of hardware description languages and digital circuit design principles. Ready to contribute to digital electronics and VLSI projects.

Python Course :- My Captain
09/2023 – 10/2023
Completed intensive Python course, solidifying programming foundation. Proficient in problem solving, algorithmic thinking, and Python application development. Ready to apply skills to real-world projects.

🔑 INTERESTS

- Sports And Athletics
- Reading And Movies
- Current Affairs
- Coding
- Content Creation
- Exploring the World

🌐 LANGUAGE

English , Hindi
Read , Write , Speak , Understand

Malayalam , Tamil
Speak , Understand

Arabic
Read , Understand

🏠 COMMUNITY OUTREACH PROGRAMS

Case Study(Handloom Culture In India)
09/2023 – 09/2023
Researched challenges in Kerala's handloom industry, documenting issues hindering sustainability. Identified obstacles like outdated practices, market limitations, and mechanized competition. Provided insights for stakeholders and policymakers.

🏅 AWARDS

Basketball Tournament(05/24)
Mohandas School of Engineering Trivandrum Secured 2nd place in basketball tournament, demonstrating both teamwork and competitive spirit.

Vidyut Sports Meet 4/24
Effectively coordinated and executed **Basketball** and **Football** tournaments for Vidyut Sports.

CHESS UTAKARSH 2023
05/2023
My team achieved 1st place in a competitive chess tournament, surpassing a multitude of opponents. This victory underscores our strategic prowess and collaborative abilities. It highlights our dedication to success in challenging environments.

SIH HACKATHON
26/08/2022
My team participated in a prestigious SIH (Smart India Hackathon) organized by the Government of India, where we emerged victorious, securing a prize of Rs 1 lakh.

DRIBBLE ON (Basketball)
04/2022
I secured 2nd place in the Dribble On competition following a fierce battle for the top spot. This accomplishment reflects my perseverance and skill in competitive sports.

CBSE Clusters
10/2019
Secured the third position in the CBSE Clusters Chess tournament—checkmating my way to success!

JSS Private School
05/2016
Secured the top spot in a roller coaster competition by ingeniously crafting a thrilling ride using the scrap materials provided by the organziers

Emirates Aviation
09/2015
Achieved Third place in the Emirates Aviation program for developing a bus equipped with a safety feature that triggers an alarm if a child is left inside,ensuring enhanced child security.