Alwin Philip

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Profile

Driven B.Tech in Computer Science student with a solid foundation in full-stack development, Python, and core CS concepts. Experienced in building real-world applications using the MERN stack and geolocation logic. Currently exploring Machine Learning and AI, with a strong interest in intelligent systems and software-hardware integration. Passionate about clean code and continuous learning.

Education

10/2022 – present
Kottayam, Kerala, India

BTech in Computer Science and Engineering
Rajiv Gandhi Institute of Technology

2019 – 2021
Mallappally, Kerala, India

Senior Secondary (XII), KERALA STATE BOARD
CMS HSS Mallappally
Percentage :- 98.4 (Science)

Skills

Programming Languages
Python, C, Java, JavaScript

Tools & Platforms
Git/GitHub, Firebase, VS Code, Figma, Google Workspace

Web & App Development
React.js, Node.js, Express.js , MongoDB, Figma, HTML, CSS, Flask, MySQL, Firestore

Soft Skills
Problem-Solving, Attention to Detail, Team Collaboration, Critical Thinking, Technical Documentation, Communication, Empathy in Design

Projects

FastTrack - Delivery Management System (Mini-Project)
HTML, CSS, JavaScript, Python, Firebase and Flutter

- Developed *FastTrack*, a cross-platform delivery management system with a Flutter-Firebase mobile app and web portal.
- Built a matching algorithm for packet-agent assignment based on weight, size, location, and manpower.
- Integrated Google Maps API for real-time tracking and optimized routing using a custom greedy algorithm.

Lab Management System (DBMS Project)
HTML, CSS, JavaScript, MySQL and Python

- Developed a Lab Management System for the Computer Science department to efficiently manage students, staff, courses, and lab components.
- Included features like role-based login, session handling, and DOB-based password reset. Enabled staff to assign labs, mark attendance, and access records, while students logged system numbers to track attendance.
- Strengthened skills in full-stack development, database design, and real-world system integration.

Cat vs Dog Classifier
Python

- Built a Cat vs Dog Image Classifier using a Convolutional Neural Network (CNN) to distinguish between cat and dog images with high accuracy.
- This project deepened my understanding of deep learning, image classification, and model evaluation.

Yumzz
MongoDB, Express.js, React.js and Node.js
- Built a full-stack website using the MERN stack to guide users and restaurant owners in planning digital food service solutions.
- Features include interactive project insights, a responsive React.js frontend, Node.js/Express.js backend, and MongoDB for efficient project data management.
- Implemented secure RESTful APIs, JWT-based authentication, and designed a responsive React frontend with Tailwind CSS.

Notifier
MongoDB, Express.js, React.js, Node.js
- Built a full-stack productivity platform using the MERN stack, featuring task management, special date reminders with notifications, and a personal diary.
- Implemented secure RESTful APIs, JWT-based authentication, and integrated Twilio for WhatsApp alerts.
- Used MongoDB for persistent storage and designed a responsive React frontend with Tailwind CSS.

Blog
MongoDB, Express.js, React.js and Node.js
- Developed a full-stack blog website using the MERN stack, featuring blog creation and viewing with title, description, and author.
- Built RESTful APIs, connected them to a React frontend, and used MongoDB for data storage.
- Strengthened skills in backend-frontend integration and responsive UI design.

Tic Tac Toe Game
HTML, CSS, and JavaScript
- Developed a classic two-player Tic Tac Toe game using HTML, CSS, and JavaScript, focusing on interactive gameplay and clean UI design.
- Implemented game logic to handle player turns, win/tie conditions, and game resets in real-time within the browser.
- Designed a responsive interface to ensure smooth user experience across devices.

Rock Paper Scissors Game
HTML, CSS, and JavaScript
- Developed an interactive Rock Paper Scissors game with a clean user interface and smooth gameplay.
- The game supports single-player mode against a computer opponent, with randomized computer choices and real-time result display.
- Designed intuitive visuals and responsive layout for optimal user engagement.

Courses

Digital System Design
NPTEL

Machine Learning In Python

Languages

- English
- Hindi
- Malayalam