

Vinayakan V S

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Education

Amrita School of Computing

B.Tech in Computer Science and Engineering | Tamil Nadu

Expected graduation: Jun. 2025

CGPA: 7.73/10

Nirmala Matha Central School

CBSE | Kerala

2019 - 2021

Perc: 92.4/100

Projects

ChatterSphere

[Demo](#)

[GitHub](#)

Aug. 2023

A real-time chat app

React, Express, MongoDB, Nodejs, Socket.io, Git

- Developed a real-time chat application using MERN stack, featuring user profiles, single/group chats, custom profile image uploads, and WebSocket integration for instantaneous messaging.
- Implemented JWT security for user authentication and ensured robust performance, leading to over 300 positive user reviews and feedback within the first 3 months.
- Enhanced efficiency by approximately 10% through the strategic utilization of optimization techniques, thereby minimizing loading speed and improving overall user experience.

Smart Crop Prediction System

[GitHub](#)

Dec. 2023

ML Crop Predictor with Raspberry Pi Pico for real-time insights.

Pico, DHT11, pH, MicroPython

- Engineered a smart agriculture system utilizing Raspberry Pi Pico, integrating sensor data from DHT11 and pH sensors with machine learning for real-time crop prediction.
- Achieved a remarkable accuracy rate of over 90% in predicting optimal crops based on soil conditions, validated through rigorous testing and validation processes.

CheckMate Academy

[GitHub](#)

Dec. 2023

A chess game offering a variety of puzzles, chess modes, and tutorials

Python, Pygames, Stockfish

- Developed a chess game application integrating the Stockfish Chess Engine, offering player vs AI and AI vs AI modes.
- Implemented chess puzzles and tutorials to enhance user engagement and learning experience.
- Implemented features such as hint provision for the next move, diverse chess modes, and real-time evaluation of the current game state, enhancing user experience and strategic decision-making support.

GRE Insights

[Demo](#)

[GitHub](#)

Jan. 2023

GRE score analyzer tool

HTML, CSS, Javascript, jQuery, PHP, MySQL, XAMPP

- Developed a web application to analyze GRE scores, providing recommendations for Ivy League colleges based on 5-year admission cutoff trends.
- Managed a comprehensive database system, facilitating dynamic updates of college cutoffs and user metrics while ensuring data integrity through CRUD operations.

Experience

Einsicht Technologies

[Certificate](#)

Nov. 2022 - Dec. 2022

Web Developer Intern

HTML, CSS, Javascript, jQuery, Figma, PHP

- Led a collaborative effort to develop a culturally tailored, responsive login/signup interface with HTML, CSS, JavaScript, and jQuery, enhancing user experience and security.
- Implemented optimization techniques, improving efficiency by 10% and minimizing loading times, elevating overall user experience.
- Gained exposure to Figma for design mockups and incorporated HTML code within PHP scripts.

Skills

Areas of Interest:

Full Stack Development, Machine Learning

Programming & Databases:

Python, Javascript, C++, Java, MySQL, MongoDB

Web Development & Tools:

HTML5, CSS3, jQuery, Bootstrap, React, Express, Node.js, PHP, Git, GitHub, Flask, Figma