

# Yashwanth Venaganti

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## EDUCATION

### Bachelor of Technology, Computer Science Engineering

Gokaraju Rangaraju Institute of Engineering and Technology • Hyderabad, India • 2019-2023

Course work: Databases, Data Structures and Algorithms, Web Development, Data Science, Programming, OOPS, Cyber Security, Digital Logic Design, Compiler Design, Cloud Computing, Principles of Software Engineering, Operating Systems, Data Warehouse and Management

## TECHNICAL SKILLS

Programming Languages: C, C#(basic) Java, Python, .Net

Languages & Frameworks: React, TypeScript

Web Technologies: HTML, CSS, JavaScript

Networking Concepts: RESTful APIs, HTTP Protocols

Version Control: Git

Design Principles: Responsive Design, User-Centered Design

Database Technologies: SQL, MySQL, MongoDB, Oracle Database

Software Development Tools: Git, GitHub, VS Code

Development Methodologies: Test-Driven Development (TDD), Agile, Waterfall Algorithms

Software Development Process: Software Development Life Cycle (SDLC)

## EXPERIENCE

### Full Stack Engineer- Internship

#### Cognizant Technology Solutions

December 2023 – May 2024

- created and maintained websites with Angular and ASP.NET Core, guaranteeing speed and responsiveness.
- RESTful APIs were developed and used to facilitate smooth communication between front-end and back-end systems.
- Entity Framework was used to implement data access layers, and database queries were performance-optimized.
- AutoMapper was used to do object mapping, which streamlined data translation across various application levels and reduced the need for human coding and any mistakes.
- Enhancing the functionality and user experience of current programmes, problems were investigated and fixed.
- Created unit tests and carried out automated testing to guarantee the dependability and quality of the code.
- Implemented CRUD operations for efficient data management and manipulation.
- JWT tokens were developed to improve application security through safe user authentication.

## PROJECTS

### Online Doctor Appointment

- created a comprehensive online system for booking doctor visits with Angular and .NET Core, allowing for easy maintenance and scheduling of medical appointments.
- Entity Framework was used to construct data access layers and improve the efficiency of database queries.
- Used AutoMapper to do object mapping in order to reduce manual coding and minimise mistakes while streamlining data translation across many application levels.
- Using Angular, a responsive user interface was developed that makes it simple for patients to make, change, or cancel appointments.
- Role-based authorization and JWT-based authentication have been implemented to protect user information and API endpoints.
- Improved the user experience overall by integrating third-party APIs for tracking shipments and completing payments.

### SELF-DRIVEN CAR

- created a robotic automobile with obstacle recognition and avoidance capabilities using the Arduino IDE.
- configured the vehicle to steer itself and change course in response to real-time sensor inputs.
- Integrated JavaScript, HTML, and CSS control over the web.
- implemented webcam-based real-time video streaming, giving the user immediate response.
- improved the car's sensor integration and control accuracy by using integrated circuit (IC) components.
- made sure the online interface and the automobile were in constant communication, allowing for precise and responsive remote control.
- Undertook comprehensive testing to guarantee dependable obstacle avoidance and user control capabilities.

### Color Detection for Color Blind

- created a colour detection system that can recognise and announce colours, helping those who are colour blind. It uses Arduino and IC components.
- sensors that have been calibrated to recognise different colour frequencies and translate them into names for distinct colours.
- Arduino was programmed to analyse sensor data and, in response to detected colours, to provide either visual or audio alarms.
- created an intuitive user interface to show the frequencies and colours that were discovered.
- conducted experiments to verify colour detection accuracy in various lighting scenarios.
- enhanced system dependability by sensor location optimisation and the use of noise reduction techniques.
- worked on integrating the system to provide real-time colour recognition and user notifications with a mobile application.

## ACHIEVEMENTS

- Secured 56 rank in AccioJob test and got 25% scholarship.
- Secured 20k rank in Hacker rank.
- Finalist in Innovative India Coding Championship conducted by AICTE and Code Ninjas.
- Finalist in Code Diva conducted by HopeConflict E-Learning.
- Participated in Jumpstart program conducted by Public Sapient.

## CERTIFICATIONS

- Certification done in AWS Cloud Foundation.
- Done Data Science and Data Analytics certifications from NPTEL.