DYLEN FERNANDES

CONTACT INFORMATION

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EDUCATION

Agnel Polytechnic Verna
Diploma in Computer Engineering
SEPT 2021 - JUL 2024

Goa College of Engineering
BE in Computer Engineering
JUL 2024 - MAY 2027

LANGUAGES

- English (Fluent
- Hindi (Basic)
- Konkani (Basic)

EXPERTISE

- Web Development
- Digital Marketing
- Programming
- Linux System Administration
- Creativity
- Critical Thinking

INTERESTS

- Web Development (WordPress, React JS, Static sites)
- Drone Building
- Arduino Programming
- Exploring New Technologies

PROFILE

Aspiring engineer with a deep passion for coding, specializing in web and software development. Eager to learn new programming languages and explore different Linux distributions. Proficient in both frontend and backend development, dedicated to ongoing learning and innovation within the tech industry.

EXPERIENCE

CodeRelix LLP — JUL 2023 - SEPT 2023
Web Developer

- Worked as a web developer specializing in WordPress and PHP frameworks.
- Gained extensive experience with WordPress and Laravel, focusing on creating dynamic, user-friendly websites and robust web applications.
- Designed and developed client websites utilizing tools like Figma, Photoshop and React JS.

Vanillakart — DEC 2023 - PRESENT
Intern

- Working on live projects to develop user-friendly websites and mobile applications, applying design principles and coding practices.
- Learning to implement digital marketing strategies and utilize AI tools for automation to enhance online presence.
- Gaining insights into managing public relations and media activities to boost brand visibility and reputation.

Free Lancing — APR 2022 - PRESENT
Solo

- Arduino Projects: Develop advanced solutions with multiple sensors and actuators.
- Drone (Quadcopter) Building: Build and program custom quadcopters for various applications.
- Code Debugging: Diagnose and fix intricate code errors and bugs.
- Static Website Development: Develop high-performance static websites with optimized features.
- Dynamic Website Development: Create sophisticated, feature-rich dynamic websites.
- Basic Windows Software Development: Design and implement simple Windows-based applications.
- Basic Raspberry Pi Projects: Set up and code basic Raspberry Pi-based projects.

PROJECTS

CodeHarbour | .NET Framework

Overview:

CodeHarbour is an offline software application designed for seamless code translation across multiple programming languages (e.g., Python, Java, C#, etc.). It provides developers with a user-friendly interface powered by the .NET Framework, allowing for accurate and efficient code migration.

Key Features:

- Multi-language Support: Code translation between languages like Python, Java, C#, C, and JavaScript.
- Offline Operation: Enables users to work without an internet connection, ensuring privacy and data security.
- Error Handling: Built-in mechanisms to ensure smooth code migration.
- Syntax Highlighting: Enhances code readability through highlighted keywords and syntax formatting.
- User-friendly Interface: Intuitive graphical interface with clipboard and file export options for ease of use.

Technologies:

- .NET Framework 4.8.1
- C# for programming
- Parsing techniques and language-specific libraries

Problem Solved:

Addressed the manual and error-prone process of translating code across languages, providing a streamlined, automated solution to improve productivity and reduce errors in code migration.

Drone | Arduino UNO

Overview:

Developed a quadcopter drone using the Arduino UNO microcontroller. The drone is designed to be affordable and customizable, leveraging simple hardware and software solutions for DIY enthusiasts.

Key Features:

- Flight Control System: Utilized Arduino UNO for core flight control, programmed to stabilize and maneuver the drone using sensors and motors.
- Gyroscope and Accelerometer Integration: Used MPU6050 for real-time orientation and stabilization during flight.
- Brushless Motor Control: Managed motor speed and direction with Electronic Speed Controllers (ESCs) to control lift and movement.
- Affordable and Accessible: Focused on creating a budget-friendly drone with easy-to-source components.

Technologies:

- Arduino UNO
- MPU6050 Gyroscope/Accelerometer
- Brushless motors and ESCs for propulsion

Problem Solved:

The project aimed to design a cost-effective and customizable drone, making drone technology accessible to hobbyists and DIY developers. It simplified complex aspects of drone-building with open-source resources and affordable components.

PROJECTS

Smart Water Quality Monitoring System | IOT

Overview:

Developed an IoT-based system for monitoring water quality in real-time. This system utilizes various sensors to measure water parameters and transmits data to a central server for analysis and display. Designed for use in water bodies like reservoirs, tanks, or natural sources, the system helps ensure safe water conditions.

Key Features:

- Real-Time Monitoring: Continuously tracks water quality parameters such as pH, temperature, and turbidity using connected sensors.
- IoT Integration: Sensors are connected to a microcontroller (Arduino/ESP8266), which transmits data wirelessly to a cloud platform for real-time monitoring and analysis.
- Dashboard Interface: Data is displayed on a user-friendly interface, allowing users to remotely monitor water quality and receive alerts for any abnormalities.
- Automated Alerts: System sends notifications or alerts if water quality parameters exceed safe thresholds, ensuring timely action.
- Scalability: Can be deployed across different water sources, scalable for both small and large monitoring areas.

Technologies:

- IoT Sensors (pH, Temperature, Turbidity)
- Microcontroller (Arduino/ESP8266)
- Cloud Platform for Data Logging and Monitoring
- Wireless Communication (Wi-Fi/4G)

Problem Solved:

Addressed the need for automated, real-time water quality monitoring to ensure the safety and usability of water in various applications, reducing manual testing efforts and improving response times for addressing water quality issues.

THE WHEEL DEAL (Car Rentals & Services) | React JS

Overview:

Developed a fully functional car rentals website using React JS, designed to provide an easy-to-use interface for booking cars, managing rentals, and communicating with customers.

Key Features:

- React JS Frontend: Created a responsive and dynamic frontend for car rentals, ensuring an intuitive user experience.
- OTP Verification: Implemented OTP authentication using Twilio for secure user verification, ensuring the service is accessible to Indian users only.
- Admin Notifications: Configured Nodemailer to send email notifications containing booking details directly to the admin upon booking submission.
- Responsive Design: Optimized the website for various devices, providing a seamless experience across desktops, tablets, and smartphones.

Technologies:

- React JS for frontend
- Node.js backend with Twilio API for OTP verification
- Nodemailer for email communication
- Secure booking management

Problem Solved:

Streamlined the car rental process by providing a user-friendly platform for both customers and administrators, ensuring secure verification and efficient management of bookings.