Alwyn Wilson

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EXPERIENCE

Junior Software Engineer, ILEARNING ENGINES   12/2024 – 02/2025 | Trivandrum, India
- Built and optimized responsive UI components using React, contributing to scalable feature development and reducing UI-related issues by 80% through efficient debugging under tight deadlines.
- Refactored and improved front-end architecture for better maintainability, enabling faster iterations and cleaner state management.
- Collaborated cross-functionally to implement business logic in PostgreSQL, writing robust and optimized queries that enhanced database performance and reduced response times.
- Aligned UI/UX improvements with backend enhancements to improve overall platform scalability and user experience.

MERN Stack Intern, LUMINAR TECHNOHUB   11/2024 – 11/2024 | Kochi, India
- Worked on a Course Finder web application using full-stack technologies including React, Node.js, Express.js, and MongoDB to build dynamic, data-driven interfaces.
- Designed and implemented responsive UI with secure user authentication, enhancing user experience and enabling personalized course discovery and management.

React Developer Intern, SPIDERO TECHNOLOGY   08/2024 – 10/2024 | Remote, UK
- Developed a doctor-patient interaction platform using React, Material UI, and Redux for a responsive, intuitive frontend with dynamic form handling and state synchronization.
- Engineered backend APIs with Node.js, Express, and PostgreSQL, translating business logic into scalable routes and queries that improved data accuracy and system integrity.
- Designed and implemented reusable UI components and optimized backend logic, reducing average API response time by over 40% and enhancing overall application performance.

SKILLS

Frontend — React, Angular, Redux, HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript (ES6+), Typescript - Basics.

Backend — Node.js, Express.js, RESTful APIs, MongoDB, PostgreSQL.

Other — Git, GitHub, Postman, VS Code, JWT Authentication, Responsive Design, State Management.

PROJECTS

KeyNOtes, A todolist Productivity app
- Built a secure and responsive Todo List web app using React, Tailwind CSS, and Node.js/Express, integrating JWT-based authentication and bcrypt for password hashing, ensuring robust user account protection.
- Implemented full CRUD functionality for todos with title and tag fields, supporting efficient real-time updates and deletion. Enabled fast and seamless interaction using React's state management and optimized API routes.
- Designed a minimalist UI with integrated search and tag-based filtering, allowing users to manage tasks intuitively. Achieved task filtering and smooth UX transitions across all interactions.

POSify, A mini Billing system
- Secure and efficient Point of Sale (POS) system with user authentication via JWT and bcrypt, ensuring encrypted login and session management through a Node.js and Express backend.
- Built a responsive dashboard to track billing activity and sales metrics, incorporating real-time updates and product-level insights. Enabled seamless data flow between the frontend and backend for fast rendering.
- Implemented full CRUD operations for product management, including product ID, name, MRP, cost, and quantity.

Alphabind, Drug Potent calculator
- Developed a bioinformatics web application to classify proteins based on their amino acid sequences. The project involved extracting features such as amino acid composition, training machine learning models, and evaluating their performance.
- The final model was deployed using Streamlit, allowing users to input protein sequences and receive real-time classification results. This project demonstrates the application of machine learning in biological data analysis, integrating Python, scikit-learn, and Streamlit to provide an end-to-end bioinformatics solution.

AWARDS

Music Band Contest, Christ College of Engineering   2023
  Winners at the intra-college music band competition.

HackSUS 1.5, IEDC Kerala   2022
- Finalists of State level hackathon (HackSUS 1.5).

Lifeathon 2021, NITI Aayog and UNDP   2021
  National level Hackathon finalists (Lifeathon 2021).

EDUCATION

Bachelor's of Technology (B.Tech.) in ECE, Christ College of Engineering   08/2019 – 07/2023 | Thrissur, India
  CGPA - 7.23