Paulson Mathew

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WORK EXPERIENCE

Junior Frontend Developer   November 2022 – January 2023
Hoverspaces | Kottayam, Kerala

- Designed and implemented interactive user interfaces using React.js, ensuring cross-browser compatibility and responsive design.
- Optimized application performance by improving component reusability and reducing load times.
- Worked closely with backend developers to integrate API endpoints and troubleshoot frontend issues.

Investigation Specialist   February 2022 – November 2022
Amazon | Bengaluru, Karnataka

- Conducted detailed investigations into suspicious account activities to prevent fraud and ensure policy compliance.
- Analyzed customer data and transaction patterns to identify potential risks and fraudulent behavior.
- Provided comprehensive reports and recommendations to internal teams to enhance security measures.

PROJECTS

Kidney Disease Prediction - FastAPI & Next.js

- Developed and deployed a machine learning-based Kidney Disease Prediction system using FastAPI for the backend and Next.js for the frontend.
- Trained a Random Forest Classifier on medical datasets to predict kidney disease based on patient data.
- Implemented API endpoints for model inference and integrated a user-friendly web interface for data input and real-time predictions.

Links: Github | Live

RN Clinic - Doctor Booking App

- Developed a doctor booking platform using **React**, with UI components designed in **MUI** and **Bootstrap**, ensuring a responsive and user-friendly interface.
- Integrated a robust backend with **PostgreSQL** and **Django**, handling appointment scheduling and patient data securely.
- Implemented authentication and authorization features to provide role-based access control for doctors and patients.

    Links: [Frontend](#), [Backend](#)

ATS Resume Builder -React Project

- Designed and developed an **ATS-friendly resume builder** using **React.js**, ensuring fast rendering and a seamless user experience.

    Links: [GitHub](#), [Live Demo](#)

Pick and Drop - Next.js Project

- Developed a logistics management system using **Next.js**, offering dynamic routing and server-side rendering for enhanced performance.
- Integrated backend services using **Node.js** and **MongoDB**, allowing real-time tracking and order processing.
- Ensured a mobile-friendly design with responsive layouts and intuitive navigation for seamless user experience.

    Links: [GitHub](#), [Live Demo](#)

Burger House - MEAN Stack Project

- Created a food ordering platform with the **MEAN stack**, utilizing **Angular** for the frontend and **Node.js, Express.js, and MongoDB** for the backend.
- Implemented a secure payment gateway and real-time order tracking features.
- Designed a visually appealing UI with enhanced customer engagement features like order customization and reviews.

    Links: [Frontend](#), [Backend](#)

bsharp Music Conservatory – MERN Stack Project

- Built a music learning platform using the **MERN stack**, offering features such as course enrollment and lesson tracking.
- Developed a role-based dashboard with **React.js**, ensuring smooth navigation and content accessibility.
- Integrated **MongoDB** for scalable data storage and **Node.js/Express.js** for backend APIs.

    Links: [Frontend](#), [Backend](#)

Biryani Hut – MEAN Stack Project

- Developed a restaurant order management system using the **MEAN stack**, ensuring smooth order placement and tracking.
- Designed an interactive and responsive UI with **Angular**, improving user engagement and experience.
- Implemented a robust backend with **Node.js, Express.js, and MongoDB**, supporting order management and reporting features.

    Links: [Frontend](#), [Backend](#)

Analysis on the Variation in Wettability Property of Nanocomposites

- Conducted research on the wettability properties of **polythiophene-manganese doped zinc oxide nanocomposite**, analyzing surface characteristics and hydrophobic behavior.
- Utilized various analytical techniques to measure contact angles and assess material suitability for industrial applications.
- Compiled findings into a comprehensive report, highlighting key insights and potential applications in materials science.

Hospital Appointment Booking System – Product Requirement Document (PRD)

- Conducted comprehensive research to identify pain points in traditional hospital appointment booking systems.
- Authored a detailed Product Requirement Document (PRD) outlining features, and technical specifications for a modern appointment booking application.
- Focused on improving patient experience through features like real-time scheduling, virtual appointment integration, and streamlined booking processes.

    [Link](#)

Addressing Medical Errors in Healthcare - Case Study

- Conducted a comprehensive case study analyzing the prevalence and impact of medical errors in the healthcare system.
- Identified key challenges faced by healthcare workers, including medication administration, vital checkups, shift handovers, and communication gaps.
- Analyzed the impact of these errors on patient mortality, hospital stays, and operational efficiency.
- Explored potential solutions, including technological interventions (EHRs, AI-powered diagnostics) and process improvements (standardized protocols, team-based care).
- Focused on improving patient experience through features like real-time scheduling, virtual appointment integration, and streamlined booking processes.
- Emphasized the importance of creating a culture of safety and transparency in healthcare settings.

Link

EDUCATION

MSc. Applied Physics   July 2017 - July 2019
C.M.S College Kottayam,Kerala

BSc. Physics   August 2013 - March 2017
C.M.S College Kottayam,Kerala

SKILLS

HTML | CSS | NodeJS |Django | ReactJs | NextJs | Angular| ExpressJs | MongoDB | Python | JavaScript | SQL | MySQL | PostgreSQL | AWS | Backend Development | Monitoring | Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity | ML | Data Analytics | FastAPI | Jira | Trello | Asana | Notion | Agile | Waterfall | Microsoft Project |

CERTIFICATION

Google Project Management   Link