

# Paulson Mathew

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## WORK EXPERIENCE

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### 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

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### 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

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**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

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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

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**Google Project Management**

[Link](#)

