MUHAMMED IRFAN

Full Stack Engineer

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Profile Summary

A highly **curious and product-minded** individual with strong **troubleshooting and critical thinking** skills. Adept at **mentoring** others and **fostering growth**, while consistently **self-learning** to stay updated with modern technologies.

Technical Skills

Languages: HTML, CSS, JavaScript, Python, PHP, C, C++, Java, TypeScript, MongoDB, MySQL, MariaDB, Redis
Libraries & Frameworks: React JS, Node JS, Express JS, Next.js, Handlebars, Redux, Mongoose, SCSS, Bootstrap, Tailwind, Strapi JS
Hosting & Deployment: Digital Ocean Hosting, AWS Hosting, Netlify, Vercel, Render, Firebase, Electron JS
Tools & Platforms: Git, GitHub, GitLab, CI/CD, Figma, Github Actions, Postman, ChatGPT, Adobe XD, Blender, Excel, JWT, S3, Twilio
Development Practices: MVC Architecture, Microservice Architecture, Clean Architecture, Agile Methodology, Project Management
Microservices: Docker, Kubernetes, Apache Kafka, Reddis

Frappe: Frappe Framework, ERP Next, Frappe Healthcare, Doppio, Frappe school
Operating Systems & Installations: Ubuntu , Windows , macOS , OS Installation, VMware, VirtualBox
Hardware & Embedded Systems: ESP32, Arduino, Microcontrollers, Basic Electronics
Soft Skills: Empathy, Leadership, Mentorship, Troubleshooting, Manual Testing
Analytical Abilities: Logical Thinking, Self-Learning, Problem Solving, Technical Analysis, Self-Driven Research
Others: Responsive Designing, UI/UX, OAuth 2.0

Experience

Whitejson Technologies   April 2023 – Dec 2024 (Present)
Frontend Developer   *1 year & 8 months*
- Collaborated closely with the **CEO and co-founders** to deliver market-driven projects.
- Worked across frontend and backend development, managing multiple projects effectively.
- Hosted, optimized performance, and implemented project improvements.
- Gathered requirements from leadership and designed solutions aligned with market feedback.
- Built projects from scratch, ensuring exceptional design and functionality.
- Gained expertise in new technologies, programming languages, and project management.

IEDC CEV   November 2022 – February 2023
Web Developer   *4 months*
- Selected for the role based on **early-demonstrated skills** in college.
- Led a team to develop, launch, and manage a startup project successfully.
- **Recognized by senior peers** for outstanding technical expertise and leadership.

Freelance   JUNE 2023 – Dec 2024 (Present)
Software Engineer   *2 years & 6 months*
- Designed and developed projects from scratch, translating business needs into technical solutions.
- Created UI/UX designs for companies and built strong professional connections.
- Oversaw product specifications and delivered client-focused solutions.

Projects

Dentsoft : (WHITEJSON) | *React.js, Tailwind, TypeScript, Electron.js, Chart.js, Vite, Git, Github, DigitalOcean*
- A management tool for dental clinics, handling doctors, treatments, patients, payments, and appointments.
- Developed the frontend from scratch using **React.js** with modern UI components.
- Converted Web application to Desktop by using **Electron.js**.
- Managed user authentication and **token-based** login for secure access.
- Implemented user **role management** and **authorization** functionalities.
- Hosted the application on **DigitalOcean** and Integrated **responsive UI** and network error handling mechanisms.
- Handled patient management, clinical activities, treatments, and appointment scheduling directly within frontend

Zero School : (PERSONAL) | *Node.js, Express.js, React.js, MongoDB, Docker, Docker Compose, Kubernetes.* GitHub
- A comprehensive system to manage students, teachers, classes, and all other activities in an school.
- Implemented **microservices** architecture for scalability and maintainability.
- Integrated **multi-tenancy** to support multiple schools within the same platform.
- Designed and developed with **Clean Architecture** and **SOLID principles** for long-term maintainability.
- Seamless user management for teachers, students, and administrators.

Frappe Dentsoft : (WHITEJSON) | *Frappe Framework, (Healthcare, Bench, Erpnext), Doppio, React js, Typescript, Tailwind*
- Transitioned Dentsoft to the Frappe framework, integrating ERPNext for enhanced functionality.
- Migration of the Dentsoft project to the Frappe framework with custom app development.
- Integrated React UI with Frappe using Doppio.
- Integrated ERPNext and Healthcare module of frappe.

Garage Management : (WHITEJSON) | *Strapi, React.js, Tailwindcss, Digital Ocean , Aws S3*
- A management tool for garages, handling work management, user roles, and insurance approvals.
- Developed a custom design for **invoice printing** as PDFs.
- Implemented photo upload functionality for **dents and scratches** also dents marking using canvas
- **Role-based** access control for users. Connected **AWS S3** for media storage
- Designed backend using **Strapi.js** for efficient content management and API development.
- Added user-friendly interface using **React.js** and Hosted on **DigitalOcean**

Ecommerce App : (PERSONAL) | *Node.js, Express js, MongoDB, Mongoose, Handlebars, Payment Gateway, JWT* GitHub
- A complete Ecommerce platform to manage products, orders, and users.
- **User authentication** and **authorization** with secure login.
- **Shopping cart** management and **product search** functionality.
- Integrated **payment gateway, Order placement** and management for both users and admins.

Mini Projects

Real-Time Mouse Pointer : (PERSONAL) | *Node.js, Socket.io, Javascript* Live | GitHub
- A collaborative web app showing real-time cursor movements of all active users.
- Displayed live random color cursor movements with assigned user names of users.
- Designed a clean and interactive UI with **real-time socket** integration.

KIVLIC CAREER : (PERSONAL) | *React.js, Firebase Auth, SASS/SCSS.* Live | GitHub
- A career portal website for appliying jobs
- Google account-based authentication, email and password, phone and OTP Authentication by using **Firebase**.
- Profile management, logout functionality, job applying and responsive design.

TaskManager : (PERSONAL) | *React.js, Firebase, Github Pages* Live | GitHub
- A task management app for adding, completing, and deleting tasks.
- Task addition, completion, and deletion with categorized views with Responsive design & dark/light themes.

Landing pages & Portfolios : *Project Management, Client Management*
- **IEDC CEV** : (IEDC) | *React.js, Firebase, Github Pages* Live
- **UQASH** : (FREELANCE) | *React.js, Tailwindcss, Google Scripts, Figma* Live
- **Dentsoft** : (WHITEJSON) | *React.js, Figma, UI/UX, Parallax CSS*
- **Whitejson** : (WHITEJSON) | *React.js, Figma, UI*

Embedded System Projects - (*ESP-32, Arduino IDE*)

Wifi Controlled LED : Turning an LED on/off using ESP32 and a mobile phone app or web interface.

Host Port Device : Exploring how to use ESP32 as a local host for communication.

ESP32 as Transmitter and Receiver : Sending and receiving data simultaneously with one ESP32.

RF Transmitter & Receiver : Sending data (turning LED on/off) wirelessly between devices using RF modules.

Bluetooth Communication : Sending data using Bluetooth modules.

Hardware Communication : Interfacing components (LEDs, sensors, modules...) with microcontrollers.

Creating Drivers : Writing low-level drivers for simple devices.

Practical Engineering Highlights

- **Washing Machine Repair** : Diagnosed and repaired a malfunctioning washing machine by identifying and replacing two faulty parts. Demonstrates problem-solving skills. LinkedIn
- **Home Theater Speaker Restoration (5.1)** : Fixed wiring issues, replaced damaged components, and restored audio performance. Highlights diagnostic abilities. LinkedIn
- **Bluetooth Speaker Repair** : Restored a non-functional Bluetooth speaker by addressing hardware malfunctions. Reflects technical confidence. LinkedIn
- **Home Theater 2.0 Repair** : Troubleshot and repaired a classic 2.0 system by reassembling wiring and enhancing performance. Showcases analytical thinking. LinkedIn
- **Car Fog Light & Brake System Repair** : Replaced a broken fog light bulb, resolved a brake cylinder leak, and performed maintenance. Reflects a curiosity for learning technology. LinkedIn
- **DVD Player Disassembly & Inspection** : Disassembled a decade-old DVD player to explore faults and understand its mechanics. Shows a keen interest in technology. LinkedIn
- **PC Parts Assembly** : Built a custom PC by researching, sourcing, and assembling components. Demonstrates a deep understanding of hardware. LinkedIn
- **Samsung M32 Phone Restoration** : Repaired a water-damaged phone by cleaning and reassembling components. Reflects technical confidence and precision.
- **Laptop Inspection** : Opened, examined, and reassembled a new laptop to understand its hardware layout. Showcases experience and self-assurance.

Professional Achievements

- **Second Place in Web Development Competition** : Secured 2nd place at the "Quasso Leberum 10" tech event by the College of Engineering Vadakara. Competed against senior participants and showcased exceptional skills Certified
- **Mathematical Achievement** : Topped a school-level math quiz competition, securing a spot in an inter-school contest, where I represented my school. Achieved a top individual **placement in state-level** competition. Certified
- **School Arts and Science Achievements** : Won over **30 trophies** and certificates for excelling in competitions like singing, quizzes, math tests, and various arts and science programs during school. LinkedIn
- **Techmate Volunteer Role** : Appointed as a Techmate Volunteer by a **local ward member** for a community survey, acknowledging my technical skills and dedication. Id Card
- **Contribution to Xiaomi MIUI OS** : Identified and reported bugs in **Xiaomi MIUI OS** during its development. This contribution earned recognition, and I was invited to Xiaomi's official Telegram group as a contributor.

Other Highlights

- **Curiosity and Hands-On Learning** : Passionate about **exploring hardware** and **solving** technical **problems**.
- **Research Skills** : Successfully researched and resolved various issues **using online tools, videos, and forums**.
- **Early Tech Involvement** : Demonstrated enthusiasm for technology **from young age** by exploring mobile phones.

Contribution

Welfare Fund Collection : (DATAHEX) | *PHP, Bootstrap, Js*   Live
  - Developed and managed the admin panel for a PHP-based fund collection web app.
  - Implemented admin management, authentication, and authorization features.
  - Integrated collection reports with filtering, searching, hierarchy-based access.

Montekids : (DATAHEX) | *PHP, Laravel, Javascript*   Live
  - A school management system for efficient operations.
  - Helped deploy and host the project on AWS for robust availability.

Kittum.com : (Open Source) | *Vue.js, Go, JavaScript*   Live | GitHub
  - A fun site tailored for Kerala citizens, primarily in Malayalam.
  - Improved and refined the UI to enhance user experience.

Education

BTECH - Information Technology
KTU - College of Engineering Vadakra

July 2022 - MARCH 2024
Calicut, Kerala

BCA - Computer Software Engineering
Manipal University (MUJ)

February 2024 - APRIL 2027
Jaipur, Kerala

Higher Secondary - Computer Science
Board of Higher Secondary Examination, Kerala (MIMHSS)

July 2020 - July 2022
Calicut, Kerala

SSLC
Kerala State Board Of Public Examination

July 2010 - APRIL 2020
Calicut, Kerala

Certificates

- Web Designing Competetion - Runner Up .... View ⬈
- Maths Competetion .... View ⬈
- Brocode - Competetion .... View ⬈
- HTML,CSS,JAVASCRIPT .... View ⬈
- C & Java Programming (100k coding) .... View ⬈
- Web Design .... View ⬈
- React js .... View ⬈
- Git & Github .... View ⬈
- Node.js & Express.js & Mongodb .... View ⬈
- Python .... View ⬈

## Tutorials

Brototype

- 100k coding (C & Java : *10 lessons — 1 Hrs each* ⬈
- HTML, CSS, JS, JQuery : *10 lessons — 1 Hrs each* ⬈
- GIT & GITHUB : *5 lessons — 50 Mins each* ⬈
- React Js : *13 lessons — 50 Mins each* ⬈
- Nodejs, MongoDB, Ecommerce : *30 lessons — 40 Mins each* ⬈
- Web Hosting : *1 lesson — 2 Hrs each* ⬈
- Data Structure & Algorithm : *22 lessons — 50 Mins each* ⬈

Debug Media

- HTML Tutorials : *7 lessons — 5 Mins each* ⬈
- CSS Tutorials : *15 lessons — 10 Mins each* ⬈
- Javascript Tutorials : *13 lessons — 30 Mins each* ⬈
- React JS Malayalam : *15 lessons — 15 Mins each* ⬈
- Git Tool : *4 lessons — 12 Mins each* ⬈
- Node JS : *10 lessons — 20 Mins each* ⬈
- TypeScript : *5 lessons — 30 Mins each* ⬈
- Redux Toolkit : *3 lessons — 30 Mins each* ⬈

Wecode Malayalam

- System Design : *4 lessons — 35 Mins each* ⬈

Frappe School

- ErpNext Introduction : *8 lessons* ⬈
- Frappe Healthcare Management : *6 lessons — 10 Mins each* ⬈