Mohammed Hussain A *Software Developer*

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PROFESSIONAL SUMMARY

Passionate and self-driven Computer Science graduate with hands-on experience in full-stack development, UI/UX design, and creative problem-solving. Adept at building responsive, user-centric web and applications that merge technology with purposeful design. Experienced in working on real-world projects from AI chatbots to VR rehabilitation platforms bringing both innovation and reliability to every solution. Strong communicator and natural team leader with a deep interest in immersive storytelling, cutting-edge technologies, and creating meaningful digital experiences. Always eager to learn, collaborate, and grow in dynamic tech environments.

SKILLS

Programming Languages & Databases — JavaScript, Python, Java | MongoDB, MySQL

Web & Frameworks — HTML, CSS, Bootstrap, Tailwind CSS, MUI | React.js, Vite, Node.js, Express.js | REST APIs, Axios

Tools & Platforms — Git, GitHub, Postman, VS Code, IntelliJ, PyCharm | Firebase, Netlify, Vercel

Design & Media — Photoshop, Illustrator, Figma, Blender

PROFESSIONAL EXPERIENCE

Oqulix Private Limited, *Software Developer*
Mar 2025 – Present

- **VR Rehabilitation Ecosystem:** Engineered a comprehensive web-based platform for **Happy Moves**, the company's flagship VR product, using **React.js and Node.js** to enable real-time patient data analysis and progress monitoring.
- **Remote Session Control:** Architected and integrated backend services to support the remote monitoring and control of active VR sessions, ensuring high-performance data synchronization between the web app and VR hardware.
- **Internal Business Suite:** Developed and maintained a modular suite of internal applications, including a custom **CRM, Finance Manager, and Task Workflow system**, streamlining company-wide operations.
- **System Architecture:** Implemented clean code principles and modular design to ensure the maintainability and scalability of production-ready features across both client-facing and internal projects.
- **Cross-Functional Leadership:** Collaborated directly with business stakeholders to align technical development with product strategy, contributing to project coordination and technical documentation for a fast-paced startup environment

iTeam, *Graphic Designer*
Jun 2023 – Jan 2024

- Designed digital content for branding and promotional materials
- Delivered tailored assets to meet brand guidelines and campaign goals

ConvAI Innovations Pvt. Ltd., *Marketing Intern*
Nov 2022 – Nov 2023

- Collaborated with the marketing team on product strategies
- Participated in client meetings and contributed to outreach planning

Torc Infotech, *Intern*
May 2023 – May 2023

- Learned and applied concepts of both frontend and backend development
- Participated in building small applications and understanding codebase structure

Assisi EMHSS, *Educational Media Facilitator*
Mar 2020 – May 2021

- Assisted in managing educational content during the pandemic
- Helped transition classroom learning to online platforms for students and teachers

PROJECTS

Web-Based 3D Game Development Project,
React Three Fiber, Three.js, JavaScript

- Developed a **3D endless-runner game** with **React Three Fiber**
- Implemented **infinite levels, collision detection, and collectible systems**
- Optimized gameplay performance using **Three.js best practices**

Intelligent 3D Conversational Interface,
React.js, Node.js, OpenAI API, Three.js, Firebase

- Developed an **interactive AI chatbot system** with a **real-time 3D rendered avatar**, supporting **custom knowledge ingestion** and use-case–driven response generation.
- Implemented **motion detection–based interaction triggers** to enable **hands-free, context-aware conversational engagement** with users.
- Built a RESTful backend in **Node.js/Express** to handle concurrent API requests, ensuring sub-2-second response latency for AI-generated dialogue.

Happy Moves – VR Companion Web App,
Built for Oqulix's VR Product | React.js, Node.js, VR Integration

- **Clinical Data Visualization:** Designed and deployed a dashboard for medical professionals to track patient recovery metrics, reducing manual data entry for therapists by **30%**.
- **Real-time Monitoring:** Integrated socket-based communication to monitor active VR rehabilitation sessions remotely, providing **<500ms latency** for live progress updates.

BookHive – Virtual Society for Readers, *Academic Publication*

- Collaborative academic project focused on building a reading-centric social platform
- Published in *Journal of Ubiquitous Computing and Communication Technologies*

Automated Timetable Generator, *Mini Project*

- Implemented **automated subject and faculty assignment**, ensuring **conflict-free scheduling** with no teacher or classroom overlaps.

COURSES

Full Stack Development, *Luminar Technolabs*
A comprehensive program covering both frontend and backend development, including technologies such as React.js, Node.js, and MongoDB, equipping me with the skills to build dynamic, responsive web applications.

Web Development, *Teachnook*
Gained expertise in HTML, CSS, JavaScript, and responsive design principles, along with hands-on experience in developing interactive websites, ensuring a solid foundation in modern web development practices.

EDUCATION

Jawaharlal College of Engineering and Technology,
BTECH Computer Science & Engineering
2020 – 2024

- Relevant coursework: Data Structures, OOP, Web Technologies, DBMS

Assisi EMHSS Kanjikode, *Higher Secondary*
2018 – 2020

Assisi EMHSS Kanjikode, *SSLC*
2017 – 2018

- **Junior Red Cross Volunteer** – Participated in health awareness campaigns and disaster relief initiatives.
- **Vice School Leader** – Led student activities and represented the school in various events.
- **First Place in State-Level Scratch Programming** – Demonstrated technical expertise in visual programming.
- **Student of the Year Award** – Recognized for academic excellence and extracurricular involvement.
- **Lead & Member of Media Club, JCET** – Directed creative projects and events.
- **President of Xmeron (CS Association)** – Organized technical events, led a team to foster innovation.