Mohamed Hamthy

Junior Full Stack Developer

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Profile

Aspiring **Full Stack Developer** with hands-on experience developing responsive web applications using **React, Node.js, Express.js, MongoDB, JavaScript, and TypeScript**. Experienced in building **RESTful APIs, CRUD-based applications, real-time features, database-driven systems**, and responsive user interfaces. Strong understanding of **Object-Oriented Programming (OOP), MVC architecture, Git version control**, and modern software development practices. Familiar with **PostgreSQL, Prisma ORM, Docker, AWS, and CI/CD concepts**. Passionate about building **clean, maintainable, and user-focused software solutions**.

Education

BSc (Hons) Computer Science in Software Engineering (TOP UP), 01/2026 – Present
Kingston University (UK)
Currently Studying: Individual Project, Programming III (Patterns & Algorithms), Software Development Practice, and Advanced Data Modeling — gaining practical experience in programming techniques, design patterns, algorithms, and complex data modeling.

Pearson BTEC Higher National Diploma in Computing (Software Engineering), 2023 – 2025
Achievers International Campus
Gained solid knowledge in programming, networking, databases, web development, system analysis, software lifecycles, algorithms, and UX design, with hands-on experience in projects, research, and implementing computing solutions.

Skills

Technical Skills

- **Cloud / DevOps:** AWS (Basic), Docker, CI/CD, Firebase
- **Scripting:** , JavaScript, Python
- **Concepts:** OOP , MVC, REST APIs
- **Frontend:** HTML, CSS, JavaScript, React, Vite, Redux
- **Backend:** Node.js, Express
- **UI / Styling:** Tailwind CSS, Material UI (MUI)
- **Database:** SQL, MySQL, MongoDB
- **Tools & Software:** Git, GitHub, VS Code, Postman, Microsoft Office
- **Operating Systems :** Linux (Basic), Windows
- **AI / ML (Basic)**

Soft Skills

- Communication Skills
- Problem-Solving
- Teamwork
- Time Management
- Critical Thinking

Projects

TaskForge — Real-Time Team Project Management Platform 08/2026 – 08/2026

- Developing a full-stack real-time project management platform for managing teams, projects, tasks, and collaboration.
- Built a responsive React and TypeScript frontend with reusable components and scalable architecture.
- Developing secure REST APIs using Node.js, Express.js, PostgreSQL, and Prisma ORM.
- Implementing RBAC with Owner, Admin, and Member roles for secure team and project management.
- Developing a Kanban board with drag-and-drop tasks, assignments, priorities, due dates, and status tracking.
- Implementing Socket.io for real-time task updates, comments, member changes, and notifications.
- Implementing activity logging, notifications, input validation, and secure authorization practices.

PulseWatch, Website Uptime Monitoring Dashboard 10/2026 – 11/2026

- Developed a full-stack website uptime monitoring dashboard to monitor website and API availability through configurable HTTP health checks.
- Implemented user authentication using JWT and features for creating, managing, and tracking website monitors.
- Built response-time tracking, monitoring history, and incident reporting functionality.

- Developed a responsive user interface using React, TypeScript, Vite, and Tailwind CSS.
- Created RESTful APIs using Node.js and Express.js, with local JSON file-based data persistence.

Technologies: React, TypeScript, Vite, Tailwind CSS, Node.js, Express.js, JWT.

AI-Based Inventory & Parts Management System 09/2026 – Ongoing

- Developing a web-based inventory management system to manage inventory, spare parts, suppliers, and stock movements.
- Built a centralized system to track stock levels and manage inventory records efficiently.
- Implementing real-time stock tracking and low-stock notifications to improve inventory monitoring.
- Developing AI-based demand forecasting to predict future inventory requirements.
- Implementing market price analysis to support better purchasing decisions.
- Developing intelligent purchasing recommendations based on stock levels, demand, and market prices.
- Using React.js for the frontend, Node.js and Express.js for backend development, MongoDB for data management, and Python for AI-based features.

District Employee Transfer System, (Student Team Project) 02/2025 – 08/2025

React, Node.js, Express.js, MongoDB, Tailwind CSS, Git. Developing a web-based transfer management system for use in government departments to handle employee transfer requests digitally.

- Built with the MERN stack to support full CRUD operations and real-time updates.
- Designed a React-based front end with reusable components and dynamic forms.
- Used Tailwind CSS to create a modern, responsive user interface.
- Implemented secure RESTful APIs with Express.js and managed backend data using MongoDB.
- Utilized Git and GitHub for version control and team collaboration across multiple branches.
- Planning deployment on cloud infrastructure to support scalable access and integrate user role management in future updates.

Cab Booking Website, Freelance Project 11/2024 – 12/2024

HTML, CSS , Bootstrap , JavaScript, PHP , Leaflet js

- The Cab Booking Website is a responsive web application built with HTML, CSS (Bootstrap), JavaScript, PHP, and MySQL. It allows users to book cabs by entering trip details and uses Leaflet.js for interactive map displays. The system ensures easy navigation, secure data handling, and efficient booking management for a smooth user experience.

Certificates

Full Stack Software Developer Assessment (IBM 2024)

- Demonstrated skills in HTML, CSS, JavaScript, React, Node.js, Express.js, MongoDB, MySQL, Git
- Completed end-to-end web application projects, covering frontend, backend, and database management
- Gained practical problem-solving, coding, and deployment experience

Responsive Web Design (Free Code Camp 2024)

- Learned to build mobile-friendly, responsive web pages using HTML, CSS, Flexbox, and Grid
- Developed layouts that adapt across devices and screen sizes
- Gained practical experience in frontend design, styling, and UI/UX basics

MERN Stack Fundamentals (SkillUp 2025)

- Learned MongoDB, Express.js, React, Node.js for full-stack web development
- Built CRUD applications with dynamic frontend and backend integration
- Gained practical skills in RESTful APIs, database management, and frontend-backend coordination

Languages

English **Tamil**

References

Available upon request