

Md. Mehedi Hasan

Software Engineer

I'm a full-stack software engineer with **3+ years of experience** turning complex ideas into real, scalable systems. From EMR and LIS platforms to AI-driven plugins and real-time apps, I build solutions that are fast, reliable, and user-focused. With hands-on expertise in React, React Native, Node.js, PHP, and modern DevOps tools, I care deeply about clean architecture, performance, and writing code that lasts.

Professional Experience

Software Engineer. Interspeed (April 2024 - Present)

- Developed EMR, LIS, and Patient Mobile App using React, React Native, PHP & ExpressJS.
- Built WordPress AI chatbot plugin with shortcode & multi-provider support.
- Created COM port communication app (Node.js + Electron), Proxy plugin(Java), Load balancer.
- Integrated RabbitMQ, Docker, GitLab CI, and AWS for scalable deployments and System Design .

Software Developer. Bitpixel BD (Feb 2022 - April 2024)

- Built POS app, video calling, SaaS eCommerce, and real-time booking systems.
- Designed system architecture for scalable full-stack applications.
- Worked with React, React Native, Next.js, Node.js, NestJS, Docker, CI/CD, Elasticsearch, Redis.
- Gained experience in teamwork, system design, deployment, and full-stack project delivery.

Technical Capabilities

- **Frontend:** React, React Native, NextJS.
- **Backend:** Node.js, Express, NestJS, PHP, WordPress.
- **Databases:** MongoDB, PostgreSQL, MySQL, Redis, ElasticSearch.
- **DevOps/Tools:** RabbitMQ, Docker, CI/CD(Gitlab CI), AWS(S3, EC2), Digital Ocean, Nginx, Postman(Documentation, Automatic API Testing), WebAssembly, Jmeter.
- **CS Fundamentals:** Strong grasp of **Data Structures & Algorithms** with regular practice on LeetCode. Proficient in **problem solving**, algorithm optimization, and clean, maintainable code development.

Work Samples

QuantumLeap EMR (React Native, PHP, JavaScript)

- Developed a cross-platform mobile & web app using React Native, PHP and JavaScript. The system supports lab orders, patient management, medical test tracking, and handles multi-location, multi-organization setups with role-based access.

LabQFusion LIS (NextJS, Express)

- Engineered a robust Laboratory Information System using Next.js, Express.js, MySQL, and RabbitMQ. Enabled labs to process medical tests efficiently, with automated scanner data input and AI-assisted analysis for rapid diagnostics and accuracy.

NextGen AI Plugin (WordPress Plugin)

- Built a powerful WordPress AI chatbot plugin with support for multiple AI providers. Features include shortcode-based integration, memory management, cost-efficient API usage, and fast first-response logic to deliver a seamless conversational experience.

Degrees & Certifications

- B.Sc. in Computer Science & Engineering, Southeast University.
- Diploma in Engineering (Computer Technology), BIST.