

# Yousuf Mohammad

[GITHUB](#) | [LINKEDIN](#) | [PORTFOLIO](#)

+880 1521331371

Mohammadpur, Dhaka

 [yousuf.mohammad8783@gmail.com](mailto:yousuf.mohammad8783@gmail.com)

## SUMMARY

**Frontend developer** with a proven track record of architecting high-performance web solutions using cutting-edge technologies. Expertise in **React.js** and modern **JavaScript (ES6+)** ecosystems, complemented by full-stack awareness through experience with **Node.js** and **RESTful API integration**. Specialized in transforming complex design systems into responsive, accessibility-focused interfaces that drive user engagement. Combines technical mastery of **component-based architecture** and **performance optimization** with a strategic approach to cross-functional collaboration. Continuously advancing skills in emerging frameworks while maintaining rigorous adherence to web standards and scalable coding practices.

## TECHNICAL SKILLS

- **Programming Languages:** JavaScript(ES6+), TypeScript, PHP.
- **Front-End:** HTML, CSS, Bootstrap, Tailwind CSS, GSAP, React.js, Vue.js.
- **State Management:** Redux, Context API.
- **Back-End:** Node.js, PHP-Laravel, Express.js.
- **Databases:** Firebase, MongoDB, MySQL, PostgreSQL.
- **Version Control:** Git, GitHub.
- **Additional Skills:** RESTful APIs, JWT Authentication, Responsive Design, Cross-Browser Compatibility, and Performance Optimization.

## PROFESSIONAL EXPERIENCE

### Junior Software Engineer | Nukta Solutions (April 2025 – Present)

- **Contributed to the development of LMS platforms** at Nukta Solution as a Junior Software Engineer, delivering full-stack features using Next.js and Laravel, and collaborating closely with senior developers to ship scalable, production-ready applications.
- **Improved performance and user experience** by optimizing Core Web Vitals and reducing API response times through efficient backend logic and frontend best practices.

### Junior Frontend Developer | Aveenir IT (September 2024 – March 2025)

- **Design and implementation of enterprise-grade** single-page applications (SPAs) using React.js, architecting scalable state management systems through strategic adoption of React Hooks and Context API, reducing component redundancy by 30% while enhancing maintainability.
- **SSR implementation** with Next.js, elevating SEO rankings by 15% and achieving sub-2s Time-to-Interactive (TTI) across 95% of page loads.

### Web Developer(Contractual) | VAST (November 2023 – September 2024)

- **Delivered pixel-perfect UI** by collaborating with UX/UI teams to translate Figma design systems into production-ready components.

## SOME SELECTED PROJECTS

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### Limit Design Ltd.bd | [Live Demo](#)

*(Architectural Showcase Web Application)*

**Tech Stack:** React.js, React Router, Firebase (Authentication, Firestore), Webpack, SCSS, Bootstrap.

- **Engineered an architectural portfolio** featuring dynamic project galleries with lazy-loaded high-resolution imagery (WebP format), reducing initial page load times by 40%.
- **Implemented real-time content updates** via Firebase Firestore document listeners, enabling instant client-side rendering of new projects without page refreshes.
- **Delivered cross-device responsiveness** with mobile-first Bootstrap grids and CSS media queries.

### Musafirs Den | [Live Demo](#)

*(Full-Stack Travel E-Commerce Platform)*

**Tech Stack:** React.js, Redux Toolkit, Node.js, Express.js, MongoDB, Bcrypt, JWT, Axios, Multer JS.

- **Optimized global state management** using Redux Toolkit with RTK Query, reducing API call redundancy by 45%.
- **Scaled backend infrastructure** with MongoDB document modeling (Mongoose ODM) and Express.js middleware, enabling CRUD operations.
- **Designed scalable media upload pipelines** using Multer.js middleware, processing image uploads (products and review images) with file validation.
- **Designed secure authentication protocols** implementing JWT coupled with bcrypt password hashing (12-round salt) to fortify credential storage against rainbow table and brute-force attacks.

### Porua AI | [Live Demo](#)

*(AI-Powered Document Intelligence Platform)*

**Tech Stack:** Next.js, Tailwind CSS, ShadCn, Gemini Pro, LangChain, Clerk, Framer Motion, Convex.

- **Engineered a document processing pipeline** leveraging Gemini for semantic chunking and vector embedding generation in multi-page PDF entity extraction.
- **Architected server-side rendering (SSR)** workflows with Next.js, optimizing SEO through dynamic meta tagging.
- **Implemented secure auth flows** with Clerk integration and role-based access control (RBAC) with JWT encryption and refresh token rotation.
- **Optimized AI inference** through LangChain's document splitting/merging algorithms and Convex vector search indexing for context-aware response generation.

## EDUCATION

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- **Bachelor of Science in Electronics & Communication Engineering**  
*BRAC University* | Dhaka, Bangladesh  
**Relevant Coursework:** Embedded Systems, Data Structures & Algorithms, Numeric Analysis, Digital Signal Processing.
- **Higher Secondary Certificate (HSC) – Science**  
*Dhaka College* | Dhaka, Bangladesh
- **Secondary School Certificate (SSC) – Science**  
*Mohammadpur Government High School* | Dhaka, Bangladesh

## ADDITIONAL EXPERIENCE

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### Satellite Training Kit Development | LaSSET, BRAC University

- Engineered embedded firmware in C++ for real-time sensor data storage and transmission.
- Developed modular testing frameworks for OBC validation

### IOT Automation Project | BRAC University

- Designed industrial safety monitoring system using ESP32 microcontrollers and MQTT protocol, reducing equipment downtime by 25% through real-time anomaly detection.
- Built remote control dashboard with Blynk IoT, enabling wireless actuator management (relays, servos) and SMS alerts via GSM modules, cutting emergency response time by 40%.