

# Yousuf Mohammad

Full Stack JavaScript Engineer

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## PROFESSIONAL SUMMARY

Full Stack JavaScript Engineer with professional experience designing and delivering scalable, production-grade web applications. Proficient in React, Next.js, TypeScript, Node.js, Laravel, and PHP. Contributed products spanning LMS platforms, AI-integrated SaaS tools, online examination systems, and e-commerce applications. Experienced in REST API design, RBAC-based admin dashboards, cloud infrastructure (AWS S3, EC2), CI/CD workflows, payment gateway integrations (Stripe, SSLCommerz), and AI/LLM integration using LangChain and Gemini. Passionate about building performant, maintainable systems and collaborating across cross-functional teams to ship high-quality software.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, PHP

**Frontend:** React.js, Next.js, Vue.js, HTML5, CSS3, Tailwind CSS, Bootstrap, GSAP

**Backend:** Node.js, Express.js, Laravel, PHP

**Mobile:** React Native

**Databases:** MongoDB, PostgreSQL, MySQL, Firebase

**State Management:** Redux, Redux Toolkit, RTK Query, Context API

**Cloud & DevOps:** AWS (Amazon S3, Amazon EC2), Docker, CI/CD pipelines

**ORM / ODM:** Mongoose, Prisma, Eloquent

**AI / LLM:** LangChain, Groq, Gemini API, Ollama Embeddings, RAG Architecture

**Testing:** Jest, Vitest, Unit Testing

**Other:** Git, GitHub, RESTful APIs, Agile/Scrum, System Design, Responsive Design, Performance Optimization, Code Review, Technical Documentation

## PROFESSIONAL EXPERIENCE

### Junior Software Engineer | Nukta Solutions

*Apr 2025 – Present*

- **Built and shipped full-stack features** for LMS platforms, online examination systems, and e-commerce applications using Next.js, TypeScript, Node.js, Express.js, Laravel, and MongoDB in an agile sprint environment.
- **Architected RBAC-based admin dashboards** enabling multi-role management of courses, quizzes, exams, and content workflows, reducing content administration time by ~30%.
- **Integrated Gemini AI API** to automate MCQ extraction from images and PDFs, reducing manual content creation effort by ~70% in LMS platforms.
- **Designed secure media pipelines** using Amazon S3 for quiz assets, blog media, and course materials, processing uploads with file validation and access control.
- **Integrated Stripe and SSLCommerz payment gateways** for course purchases and subscriptions, supporting end-to-end transactional workflows.
- **Migrated legacy codebases to Next.js 14 architecture**, improving Lighthouse performance scores from ~55 to 85+ and reducing Time-to-Interactive.
- **Contributed to 10+ production-grade projects** spanning LMS platforms, AI-powered document processing tools, e-commerce applications, and mobile apps.

## Junior Frontend Developer | Aveenir IT

Sep 2024 – Mar 2025

- **Designed and implemented enterprise-grade single-page applications (SPAs)** using React.js, architecting scalable state management via React Hooks and Context API, reducing component redundancy by 30% and improving maintainability.
- **Implemented server-side rendering (SSR)** with Next.js, improving SEO rankings by 15% and achieving sub-2s Time-to-Interactive (TTI) across 95% of page loads.
- Participated in agile sprint planning and code review cycles, contributing to consistent feature delivery across projects.

## SELECTED PROJECTS

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### FE Civil Practice Test Platform | [Demo Link](#)

Tech: Next.js, Node.js, Express.js, MongoDB, Redux, Tailwind CSS, AWS S3

- Built a full-stack online examination platform for FE Civil Engineering preparation, supporting multi-answer questions, detailed explanations, and open-book exam mode with integrated PDF viewer.
- Developed a scientific calculator interface within the exam environment and a rich-text blogging system (Notion-style) for supplementary study content.
- Built admin dashboard enabling question management and bulk media uploads to Amazon S3, handling 500+ exam questions and assets.

### DocuMind — RAG Document Intelligence Platform | [Github Repo](#)

Tech: Next.js 15, TypeScript, Node.js, Express.js, LangChain, Groq, Ollama, Convex

- Engineered a full-stack AI platform enabling users to upload PDFs and query document content using Retrieval Augmented Generation (RAG) for semantic search and contextual Q&A.
- Built PDF ingestion pipeline with LangChain (chunking + embedding generation), vector similarity search via Convex, and Groq LLM for contextual answering.
- Designed monorepo architecture using npm workspaces, cleanly separating frontend, API, and AI modules for scalability and independent deployability.

### Some Other Products:

- **Salaf Global** | [Google Playstore](#) — Contributed to a production-ready React Native app for ad account management, implementing reusable components and Redux-based state management to support real-time balance tracking, transactions, and Business Manager integrations.
- **IMTR LMS Platform** | [Live Link](#) — Corporate LMS with RBAC dashboards, coupon system, certificate generation, and SSLCommerz payment integration.
- **Itqaan Institute** | [Live Link](#) — Contributed to a learning platform by developing a full-stack coupon system, course detail pages, review functionality, and admin analytics dashboard.
- **Nukta LMS** | [Demo Link](#) — AI-assisted learning platform with Gemini-based content generation and automated MCQ extraction.
- **EStore Nukta** | [Demo Link](#) — E-commerce platform with product variants, cart, wishlist, checkout flows, and order history.

## EDUCATION

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**Bachelor of Science, Electronics & Communication Engineering | BRAC University, Dhaka**

**Higher Secondary Certificate (HSC) — Science | Dhaka College, Dhaka**

**Secondary School Certificate (SSC) — Science | Mohammadpur Government High School, Dhaka**

## RESEARCH & ENGINEERING PROJECTS

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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 Industrial Safety Monitoring System | BRAC University**

- Designed 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%.