

RAFIUR RAHMAN PROTIK

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript

Frontend: React.js, Redux, Next.js, React Query, Ant Design, Shadcn UI, Tailwind, SASS, Framer Motion

Backend: Node.js, Express.js, Nest.js, WebSocket, Redis, RabbitMQ

Databases: PostgreSQL, Prisma, TypeORM, MongoDB, Mongoose

Platform/Tools: Jest, Cypress, Postman, Swagger

DevOps & Cloud: Git, AWS, Docker, Linux (Ubuntu), Nginx, CI/CD (GitHub Actions), Pulumi

EXPERIENCE

NEN Group [TypeScript, JavaScript, Next.js, React.js, Docker]

Tejgaon, Dhaka Bangladesh

Software Engineer - Full time January 2024 - March 2026

- Led a news platform application using Next.js with design patterns to ensure scalable and efficient state management.
- Architected scalable property management solution with custom design system and Dockerized deployment.
- Published multiple portfolio projects on ThemeForest, generating over 250+ successful sales.

TechServe4U [Node.js, Next.js, MongoDB, Microservice]

Michigan, United States

Software Engineer - Full time August 2022 - December 2023

- Optimized internal apps with Next.js, Socket.io, Redux, designing complex queries for high-performance retrieval.
- Contributed to designing and optimizing a microservice architecture using RabbitMQ, reducing message latency by 25%.

Ever Expert [React.js, React Native]

Mirpur, Dhaka, Bangladesh

Software Engineer - Intern May 2022 - June 2022

- Contributed to designing the eCommerce category page at Bazar360 using Angular and SASS.
- Worked with the Bazar360 team to build responsive UI components, ensuring cross-browser compatibility.

PROJECTS

Content Processing Platform [RabbitMQ, Kong API, Keycloak, Redis, PostgreSQL, Docker, React.js]

- Architected a scalable, event-driven microservices ecosystem leveraging RabbitMQ for asynchronous job orchestration and Kong API Gateway for streamlined routing, ensuring high availability and seamless system decoupling.
- Implemented enterprise-grade security and real-time synchronization by integrating Keycloak OAuth2/JWT for identity management and Server-Sent Events (SSE) for instantaneous dashboard updates, eliminating redundant polling overhead.
- Built an 8+ service platform with Node.js, TypeScript, Prisma, and Docker Compose, enabling automated deployment.

Distributed Report Queue [Redis, BullMQ, AWS, Pulumi, GitHub Actions, CI/CD]

- Developed Redis-backed job queues with BullMQ, handling concurrent Puppeteer PDF generation and automated retries.
- Architected AWS microservices using Pulumi IaC with secure VPC networking and S3 Gateway Endpoints.
- Automated zero-downtime EC2 deployments via GitHub Actions and developed real-time observability dashboards.

Video Stream [TypeScript, Node.js, Express.js, Prisma, FFMPEG, Cloudinary, hls.js]

- Uploads videos and converts them into HLS format with segmented files (.ts) and playlist (.m3u8).
- Stores HLS files in Cloudinary for seamless access and streaming, while adding animated watermarks during processing.

EDUCATION

American International University-Bangladesh	August 2017 – December 2021
Bachelor in Computer Science and Engineering	CGPA: 3.34/4.00
BAF Shaheen College, Dhaka	June 2014 – September 2016
Higher Secondary Certificate (HSC)	GPA: 4.58/5.00

RESEARCH

Melanoma Classification by Using Deep Learning

Domain: Deep Learning

MENTORING EXPERIENCE

Teaching Assistant September 2021 – December 2021

American International University-Bangladesh

- Assigned primary classroom and laboratory responsibility.
- Assisted students with their coding problems and debugging.

Mentor July 2023 – August 2024

Tech Serve4 U

- Conducted MERN program, delivered content and live sessions.
- Assisted students with technical guidance and real-time problem solving.