

Raiyan Rashid Prodhan

Senior Software Engineer | Angular • React • NestJS • Django | SaaS, GIS & Decision Support Systems

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Senior Software Engineer with 5+ years of experience designing, architecting, and delivering scalable web applications, SaaS platforms, and enterprise systems. Experienced in technical leadership, system architecture, performance optimization, and mentoring engineers. Built high-performance, maintainable solutions deployed across 8 countries in Asia-Pacific and Africa, including World Bank, UNEP, and GCF-funded projects.

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer — Regional Integrated Multi-Hazard Early Warning System

United Nations-registered, 22-nation intergovernmental body providing multi-hazard early warnings

June 2023 – Present

- **Agricultural Decision Support System (ADSS)**

Multi-country agritech platform for predictive weather, crop, pest & disease advisories

- Architected and led Angular frontend development for the platform deployed across 8 countries and 8 government organizations, owning ~20 modules within a 7-person engineering team.
- Reduced crop advisory generation time from 2 minutes to 400ms through caching, lazy loading, state management, and database/query optimization; reduced a critical database query from 95 seconds to 200ms.
- Designed reusable frontend architecture, established coding standards, conducted code reviews, and drove technology and system-design decisions across the platform.
- Mentored 1 junior engineer on ADSS architecture and module workflows; the engineer later developed an end-to-end crop advisory system for Bihar. Delegated technical tasks to 2 interns and reviewed their work.
- Led features from requirements through production deployment, collaborating with stakeholders and managing releases, CI/CD, production monitoring, and application security.

- **Flood Forecasting & Warning Centre**

Government-owned early warning system for floods in Bangladesh

- Developed the flash-flood forecasting module supporting national disaster response.
- Built a Leaflet dashboard for interactive flood-risk visualization.
- Reduced large-map rendering time from ~60 seconds to 500ms.

Junior Software Engineer — Intelletive Technologies Bangladesh (now Tekumo)

US-based software services company

June 2020 – May 2023

- **TekumoPRO**

US-based field service management SaaS platform connecting enterprises with local technical labor

- Modernized the backend from Restify to NestJS, redesigning services and API contracts while maintaining core business workflows.
- Built Angular and NestJS modules for client order management, technician dispatch, and work-progress tracking.
- Automated invoice generation and email workflows, reducing manual processing by 90%.

FREELANCE / CONTRACT EXPERIENCE

Full Stack Developer — Luminous Engineering Pte Ltd.

Singapore-based Property services company

December 2025 – Present

- Architected and built the company's portfolio website using React/Next.js and reusable components.
- Implemented Sanity CMS, GA4 analytics, SEO-optimized markup, and responsive layouts.
- Managed production deployment using GitHub and Vercel.

Full Stack Developer — SynoIT

Singapore-based software services company

August 2026 – Present

Architected and developed the company's 3D interactive portfolio website using Astro, GSAP, and Three.js.

TECHNICAL SKILLS

Frontend

Angular, React, Next.js, Astro, TypeScript, JavaScript, HTML5, CSS3, SCSS, RxJS, Angular Material

Backend

Node.js, NestJS, Django, Django REST Framework, Express.js, Python, REST APIs

Database & Caching

PostgreSQL, Redis, Knex.js, SQL Optimization

Architecture & Engineering

Software Architecture, System Design, Performance Optimization, Code Review, Technical Leadership

DevOps & Tools

Docker, Git, GitHub, CI/CD, Firebase, Vercel, Hostinger, Postman

EDUCATION

B.Sc. in Computer Science & Engineering — East West University

Dhaka, Bangladesh

September 2016 – December 2020

CGPA: 3.50/4.00

Advanced Certificate for Management Professionals — IBA, University of Dhaka

Dhaka, Bangladesh

July 2025 – September 2025

PUBLICATION

Analyzing and Evaluating Boosting-Based CNN Algorithms for Image Classification

IEEE CONIT 2021

Evaluated boosting-based CNN algorithms, demonstrating how hybrid ensemble models improve image classification accuracy.

LANGUAGES

English — Fluent

Bengali — Native