

# MD SAHADUZZAMAN

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## PROFESSIONAL SUMMARY

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**Software Engineer** with experience building scalable, high-performance full-stack applications and REST APIs using **TypeScript (NestJS, Express)** and **Next.js/React**. Experienced in designing containerized architectures, optimizing **PostgreSQL** and **MongoDB**, and deploying cloud-native solutions using **Docker, Azure**, and **GitHub Actions**. Proven ability to improve system performance by implementing centralized query structures, granular **RBAC security**, and **automating CI/CD** workflows.

## PROFESSIONAL EXPERIENCE

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**Founder & Full-Stack Software Engineer | Sahad Labs | Remote** Jan 2026 – Present

- (Technologies: NestJS, Next.js, TypeScript, PostgreSQL, Redis, WebRTC)
- Spearheaded international client acquisition across Australia, Germany, and Europe, successfully architecting and delivering high-impact Vertical SaaS and internal operational infrastructure for non-technical businesses.
- Engineered a secure, internal operational management platform for an Australian disability service provider (Cozee Care), optimizing workflows, managing sensitive data pipelines, and ensuring strict role-based access control (RBAC).
- Designed and deployed multiple high-performance internal solutions and "invisible infrastructure" for logistics and specialized healthcare clients, accelerating internal business processes while maintaining 100% data confidentiality.
- Developed and launched public-facing web solutions, utilizing Next.js for optimized frontend performance and NestJS/PostgreSQL for highly scalable, concurrent backend APIs.
- Developed a tailored operational or digital management platform for a German ambulatory care provider (Violina Pflegedienst), enhancing patient data organization and service scheduling capabilities.

**Software Engineer | 4j Traders Ltd | Dhaka, Bangladesh** July 2025 – Dec 2025

- (Technologies: NestJS, TypeScript, PostgreSQL, Prisma, Next.js, Docker)
- **Engineered and deployed a scalable, containerized backend** (NestJS/PostgreSQL/Prisma) for a high-value e-commerce platform, handling product inventory, complex user roles (superAdmin, admin, customer), and ensuring transactional integrity for all order processes.
- **Optimized core database performance** by implementing a centralized query structure and performing schema normalization, which prepared the system for high-volume data operations across products, projects, and orders.
- **Developed and secured a full project management CRUD API** that allows administrators to dynamically publish interior design case studies and manage media assets, restricting access based on granular RBAC (Role-Based Access Control) enforced via JWT authentication and NestJS Guards.
- **Established robust DevOps and CI/CD pipelines using Docker and GitHub Actions**, drastically improving deployment reliability and enabling consistent environment setup (Local, Staging, Production) for future team collaboration.

**Backend Engineer | Rushkat Company Ltd | Remote [South Korea]** Oct 2024 – Jun 2025

- Developed and optimized scalable backend services for a 3D asset store using TypeScript, Express.js, and Prisma ORM, significantly improving system performance through strategic code refactoring.
- Designed and implemented RESTful APIs for asset management and user interactions; managed PostgreSQL DB and integrated Redis to accelerate high-traffic endpoints.
- Ensured production readiness by implementing robust security protocols, collaborating with cross-functional teams to deliver key features, and conducting thorough testing and performance tuning.

## PROJECTS

*Visit my portfolio for all project's*

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### Cozee Care Operational Platform | (Internal Enterprise Solution)

Tech Stack: NestJS, Next.js, PostgreSQL, Prisma, Tailwind CSS

- Engineered a secure, internal operational management platform for an Australian disability service provider to streamline internal workflows and client scheduling.
- Implemented a strict, granular Role-Based Access Control (RBAC) system utilizing JWT authentication and NestJS Guards to protect sensitive client data.
- Optimized data models and transactional workflows using Prisma ORM, ensuring 100% data integrity and robust system reliability for daily healthcare operations.
- Public Part Url: <https://www.cozeeecare.com.au/>

### Vertical SaaS Plot & Land Sales Engine | (Internal Client Solution)

Tech Stack: NestJS, Next.js, Prisma, PostgreSQL, Redis

- Architected a specialized Vertical SaaS application tailored for real estate and plot sales management, handling complex inventory tracking and client data.
- Developed a high-performance backend with NestJS and PostgreSQL, integrating Redis for efficient state management and caching of heavy search queries.
- Public Part Url: <https://taqwagroupbd.com/>

### Ambulatory Care Management Platform | (Internal and User Based Solution)

Tech Stack: NestJS, Next.js, PostgreSQL, Tailwind CSS

- Engineered and launched a specialized web solution for a Germany-based outpatient healthcare provider (Violina Pflegedienst) to streamline local patient engagement and service presentation.
- Optimized front-end rendering using Next.js for high accessibility and integrated modern UI components to display specialized healthcare services clearly to non-technical end-users.
- Developed secure backend components using NestJS to safely process user inquiries and coordinate care service requests while ensuring high data confidentiality standards.
- Public Part Url: <https://violina-pflegedienst.de>

### Online Doctor Consultation Platform | (Personal Health Care SaaS)

Tech Stack: MongoDB, Express.js, React, Node.js (MERN), WebRTC, Socket.io, Stripe API, Azure

- Engineered a full-featured telemedicine platform enabling real-time video/audio consultations with WebRTC, automated appointment scheduling, and digital prescriptions.
- Leveraged Socket.io for bi-directional, real-time communication and deployed the architecture on Azure to ensure scalable, high-availability performance.
- Public Part Url: <https://odcp.vercel.app>

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## ADDITIONAL PROJECTS (LIVE PREVIEWS)

[SOME ARE ONGOING]

- FCHC Healthcare Portal: [Live Preview](#)
- NDIS CarePlus Website: [Live Preview](#)
- ProCourier (Logistics Platform): [Live Preview](#)
- TravelLast (Booking System): [Live Preview](#)

## SKILLS

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JavaScript | Python | DSA | Azure | Docker | React | NextJS | TypeScript | NodeJS | Express | NestJS | MongoDB | PostgreSQL | Redis | WebRTC | Socket.io | Stripe | VPS | DevOps | CI/CD  
Communication | Teamwork | Problem-solving | Leadership | Time Management | Critical Thinking

## EDUCATION

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**BSc in Computer Science and Engineering | DIU**

**May 2021 - Jan 2025**

Completed 148 credits with strong academic performance. Focused on core areas like algorithms, databases, Networking, web systems, AI, and software engineering.