



# MD. NAZMUS SADAT NUMAN

Software Engineer

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📍 Bashundhara R/A, Dhaka, Bangladesh

🐙 [github.com/sadatnuman](https://github.com/sadatnuman)

🌐 Portfolio: <https://sadatnuman1.github.io/MD.-Nazmus-Sadat-Numan-Portfolio/>

## Summary

Software Engineer and final-year BSc Computer Science and Engineering student at American International University-Bangladesh, majoring in Software Engineering (CGPA 3.70/4.00). Experienced in independently developing full-stack applications and multi-tenant SaaS systems for Byte Innovations, including HR management, recruitment workflows, and a corporate career portal. Skilled in backend APIs, relational databases, secure authentication, and collaborative software development, with academic research in reinforcement learning and requirements engineering.

## Professional Experience

**Byte Innovations | Software Engineering Intern** | Dhaka, Bangladesh

1 September 2026 - 30 November 2026 (3-month internship)

### Expert HRMS (SHOCHOL) - Ongoing Development

<https://shochol.xyz/>

**Technologies:** Laravel 12, Vue 3, TypeScript, MySQL, Docker, Cloudflare

- Independently developing a multi-tenant HRMS with isolated tenant databases, subdomain-based workspaces, and role-based authorization.
- Implementing employee management, attendance, leave approvals, payroll, income-tax processing, audit logs, and secure PDF documents.

### Expert ATS - Ongoing Development

<https://expertats.b-innovations.com/>

**Technologies:** Next.js 16, React 19, NestJS 12, TypeScript, PostgreSQL, Prisma

- Independently building a multi-tenant applicant tracking platform with organization workspaces, job publishing, recruitment pipelines, and permission-based access.
- Developing secure REST APIs, candidate profiles, resume processing, and consent-aware AI-assisted recruitment and shortlisting workflows.

### Byte Innovations Corporate Website - Live

<https://www.b-innovations.com/>

**Technologies:** Next.js 16, React 19, JavaScript, MongoDB Atlas, Nodemailer, Vercel

- Independently designed, developed, and deployed a responsive corporate website with services, portfolio showcases, and Google Analytics.
- Built dynamic MongoDB job listings, career applications with resume uploads, validated contact forms, and SMTP email notifications.

### Expert POS - Team Collaboration

<https://expertpos.xyz/>

**Technologies:** Laravel, PHP, MySQL, JavaScript

- Contributed to selected development tasks and enhancements within a shared Laravel-based POS and business management application.
- Collaborated with team members on a system supporting sales, inventory, purchasing, accounting, and multi-location operations.

## Technical Skills

**Programming:** TypeScript, JavaScript, Python, PHP, C#, Java, C++, SQL, PL/SQL

**Frontend:** React, Next.js, Vue 3, HTML5, CSS3, Tailwind CSS

**Backend:** NestJS, Laravel, Node.js, ASP.NET Core MVC, REST APIs, JWT, RBAC

**Data & ORM:** PostgreSQL, MySQL, MongoDB, Oracle Database, SQL Server, Prisma, Eloquent

**Tools & Platforms:** Git, GitHub, Git CLI, Terminal, Shell Commands, Postman, Docker, Vercel, Cloudflare

**Operating Systems:** macOS (Unix-based), Windows 11

## Research Experience

**Adaptive Human Recognition via Sequential Reinforcement Learning and Evidence-Driven Module Selection** | BSc Thesis, 2026

- Co-researched a budget-aware human recognition framework using Double-DQN, face, appearance, posture, and scene-context evidence.
- Evaluated a 600-identity protocol against seven baselines; the thesis reports 62.0% mean top-1 accuracy over 10 seeds.

**RE-M3S: Requirements Engineering Maturity Model for Remote-First SaaS Startups** | Research Manuscript, 2026

- Co-designed a five-level, eight-dimension requirements engineering framework for distributed SaaS teams.
- Analytically assessed 390,625 possible profiles with a conservative lower-median scoring approach.

## Academic Projects

### Doctor Tracker - Online Doctor Appointment Platform

Live: <https://doctor-tracker-gamma-seven.vercel.app>

Frontend code: <https://github.com/sadatnuman/doctor-tracker-frontend>

Backend code: <https://github.com/sadatnuman/doctor-tracker-backend>

**Technologies:** Next.js 16, React 19, TypeScript, Tailwind CSS, Node.js, Express, MongoDB Atlas, Mongoose

- Built a bilingual appointment platform with admin analytics, doctor schedules, specialty browsing, slot booking, and online payment.
- Prevented double-booking using database constraints and five-minute slot holds; added secure sessions, indexed search, receipts, refunds, and tests.

### Solix Clothing Brand - Full-Stack E-commerce Platform

Live demo: <https://solix-bangladesh.netlify.app>

GitHub: <https://github.com/sadatnuman/Solix-Clothing-Brand.git>

**Technologies:** Next.js 16, React 19, NestJS 11, TypeScript, MongoDB Atlas, Mongoose, Cloudinary, Netlify, Render

- Independently developed and deployed a full-stack storefront with product discovery, cart, wishlist, checkout, payments, and order tracking.
- Built an RBAC admin/staff studio for catalog, inventory, fulfilment, coupons, reviews, support, Cloudinary media, and audit logs.

### NewsArchive - News Management System

<https://github.com/sadatnuman/News-Archive-.Net-Core-MVC-3-tier-Architecture-.git>

**Technologies:** ASP.NET Core MVC, C#, SQL Server, 3-Tier Architecture

- Built a news management platform using three-tier architecture, the Repository Pattern, and dependency injection.
- Implemented content CRUD, advanced search, filtering, trending and recommendation features, and role-based authentication.

### University Admission Management System

<https://github.com/sadatnuman/University-Admission-Management-System-DBProject.git>

**Technologies:** Oracle Database, SQL, PL/SQL, Stored Procedures, Triggers

- Designed a normalized relational database covering applicants, programs, applications, payments, and admission evaluation.
- Implemented PL/SQL packages, stored procedures, database triggers, complex queries, and exception handling.

### AI Content Detection using BERT & RoBERTa

<https://github.com/sadatnuman/AI-Content-Detection-using-BERT-RoBERTa.git>

**Technologies:** Python, NLP, Machine Learning, BERT, RoBERTa

- Developed an NLP text-classification workflow using pretrained BERT and RoBERTa models to distinguish AI-generated from human-written text.
- Evaluated model outputs using accuracy, precision, recall, and F1-score for comparative classification analysis.

## Education

**BSc in Computer Science and Engineering** | 2026 (Final Year)

American International University-Bangladesh (AIUB) | Major: Software Engineering | CGPA: 3.70 / 4.00

All courses completed; only internship ongoing. Thesis and internship end on 30 November 2026.

**Higher Secondary Certificate (HSC), Science** | 2021

Trust College, Uttara | GPA: 5.00 / 5.00

**Certification & Affiliations:** Cisco IT Essentials (2022); IEEE Student Member & IEEE Computer Society Member (2025)