

Masum Billah Zihadi

Software Engineer | MERN Stack Developer

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SUMMARY

Dedicated and versatile Full-Stack Developer passionate about solving real-world problems using technology. Specializing in the MERN stack and integrating n8n workflow automation to architect secure, scalable automated pipelines and highly efficient web applications.

WORK EXPERIENCE

Transition Group

Software Engineer Intern

03/2025 – 06/2025

- Created a complete user administration portal with Next.js, Express.js and Sequelize, including JWT authentication.
- Developed a cryptographically secure dice game in Node.js and TypeScript, using HMAC algorithms to ensure and confirm fair play in a game.
- Developed a Javascript-based dynamic data-generation Next.js application to simulate, filter and render massive datasets in interactive gallery and table views
- Authentication of backend API endpoints through the use of strict data validation, sanitization pipelines and centralized error processing middleware.

PROJECTS

Cryptographic Dice Game | *TypeScript, Node.js*

[View Code] github.com/zihadimasumbillah/Dice_Game

- Developed a math-intensive CLI game with HMAC cryptographic hashing to guarantee fair gameplay.
- Designed a modular engine following Clean Architecture principles for high maintainability.
- Built a unit testing suite to validate game logic and ensure cryptographic integrity.

Dynamic Data Generator | *Next.js, React, Tailwind CSS*

[View Code] github.com/zihadimasumbillah/fake-book-generation

- Created a web app to simulate and render large randomized mock datasets in gallery views.
- Developed custom data export features for JSON, CSV, and SQL formats.
- Integrated a live-preview system for data schema changes and randomization in real-time.

E-Commerce Platform | *Next.js, Nest.js, PostgreSQL*

[Frontend] github.com/shakil-muntasir/ecom-nextjs

[Backend] github.com/shakil-muntasir/ecom-nestjs

- Designed relational database schemas and secure API endpoints for inventory management.
- Implemented a persistent shopping cart and secure checkout flow with real-time sync.
- Developed a responsive administrative panel for product tracking and sales analytics.

User Administration System | *Next.js, Express.js, Sequelize*

[Frontend] github.com/zihadimasumbillah/useradministration

[Backend] github.com/zihadimasumbillah/adminbackend

- Engineered a secure admin dashboard with robust state management and activity tracking.
- Implemented role-based access control (RBAC) to secure administrative functions and sensitive data.
- Integrated automated email notifications for account status updates using Nodemailer.

SKILLS

Frontend:

- React.js, Next.js, Tailwind
- Redux, Zustand, Framer Motion
- JS (ES6+), TS, HTML5, CSS3
- Material UI, Shadcn UI

Backend:

- Node.js, Express.js, Nest.js
- Python, PHP, Sequelize

Databases:

- PostgreSQL, MySQL, Oracle
- MongoDB, Relational DBs

DevOps & Tools:

- Docker, Git, Linux, CI/CD
- Postman

Automation & AI:

- n8n, OpenAI API, RAG
- Google Labs, Google AI Studio
- GitHub Copilot, Prompt Eng.

Software Engineering:

- Requirements Engineering
- QA & Testing
- Embedded Programming

Networking:

- Basic Networking, Packet Tracer

EDUCATION

American International University - Bangladesh

B.Sc. in Computer Science & Engineering

2016 – 2020

CGPA: 3.20/4.00

CERTIFICATIONS

Commercial Software Dev – JS

Transition Group

IT Essentials

Cisco Networking Academy

HackerRank Skill Certification

Javascript Basic and Intermediate