

# Md. Nazmul Haque Redoan

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Full-stack developer with a track record of building end-to-end applications and a strong interest in system design, problem-solving, and testing. Skilled in simplifying complex concepts and passionate about creating impactful, real-world projects.

## Skills

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**Languages:** Rust, TypeScript, Bash, JavaScript, C, C++, Python, PHP, Java, Assembly

**Frameworks/Tools:** Next.js, Vue.js, Express.js, Tauri, Tailwind CSS, Node.js, Bun, GDB, Docker, Git, Linux, Figma

**Testing:** Cypress (E2E Testing), JMeter (Performance Testing), Postman (API Testing), White-box Testing, Black-box Testing

**Databases:** PostgreSQL, MongoDB

## Experience

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### OneVisaHub

Full Stack Developer

- Developed backend logic using Next.js server actions to streamline user workflows and reduce API response time by 30%.
- Optimized database schema and queries to enhance performance and achieve 40% faster data retrieval.
- Integrated third-party visa agencies with a dynamic interface built using Shadcn, increasing user selection efficiency by 50%.
- Performed API testing with Postman to validate endpoints, ensure data accuracy, and improve backend reliability.

## Projects

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### Unmochon

- Developed a responsive online platform using Next.js to manage university project showcase events, streamlining coordination for 100+ participants
- Integrated Clerk.js for secure email authentication, enhancing user account security and reducing unauthorized access by 60%.
- Implemented Edge Store for efficient file uploads, reducing upload times by 35%.
- Utilized Drizzle ORM for structured, type-safe database queries, minimizing runtime errors and boosting query reliability.
- Leveraged Neon Postgres for scalable cloud-based data storage, supporting over 10,000 records with high availability.
- Deployed the platform on Vercel, achieving 99.9% uptime and improved load performance.
- Performed end-to-end testing with Cypress and load testing with JMeter, enhancing system reliability and scalability by identifying and resolving performance bottlenecks, improving response time by 40%.
- Collaborated in an Agile development environment, conducting regular stand-ups and iterative planning to ensure continuous delivery and fast feedback

## Research

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### Renewable Energy Fusion: An Integrated Approach for Sustainable Data Centers

Co-author

- Proposed a holistic architecture integrating renewable energy, heat waste management, and liquid cooling techniques to improve data center energy efficiency by up to 40%, illustrated through simulation using HOMER software.

## Education

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United International University

**Bachelor in Computer Science**

**CGPA:** 3.67/4.00

- Awarded 50% and 100% merit-based scholarships across multiple trimesters for academic excellence and consistent performance.