

Md Ashikul Islam

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Summary

Results-driven **Software Engineer** with a strong foundation in **System Design** and Full Stack Development using the MERN stack and .NET ecosystem. Proven track record in optimizing backend performance, implementing secure RESTful APIs, and solving complex technical challenges. Experienced in modern DevOps practices, including CI/CD pipelines and cloud deployment. Passionate about building scalable architectures and translating business requirements into robust technical solutions.

Education

Ahsanullah University of Science & Technology *Nov 2021 – Dec 2025*
B.Sc in Computer Science & Engineering

- **Key Coursework:** Distributed Systems, Software Architecture, Database Management Systems, Data Structures & Algorithms, Computational Theory.

Projects

IPGuardian — Blockchain-Based Intellectual Property Platform *Github Repository* ↗
○ Architected a decentralized application (DApp) on Hyperledger Besu for secure IP registration, utilizing **Smart Contracts** to ensure immutable proof of ownership.
○ Integrated **Web3.js** to connect the React frontend with the blockchain network, enabling seamless wallet transactions and asset verification.
○ Designed a secure IPFS storage layer for handling large media assets, ensuring data integrity while maintaining low on-chain gas costs.

AllyHub — Enterprise Job Portal System *Github Repository* ↗
○ Developed a scalable MVC architecture using **.NET Core** and **MSSQL**, implementing the Repository Pattern to decouple data access logic.
○ Optimized complex SQL queries and database normalization to handle recruiter-applicant relationships, ensuring data consistency under concurrent load.
○ Implemented role-based authentication and authorization to secure recruiter dashboards and applicant data privacy.

News Portal — Full Stack MERN Application *Github Repository* ↗
○ Built a RESTful API with **Node.js** and **Express**, featuring JWT authentication for secure session management and CRUD operations.
○ Designed a responsive UI with React and Tailwind CSS, focusing on component reusability and accessibility (a11y) standards.
○ Deployed the application using CI/CD workflows, ensuring automated testing and smooth delivery to production environments.

Technologies

Languages: JavaScript (ES6+), TypeScript, C#, SQL, C++, Python, Java

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, .NET Core, ASP.NET MVC, React Native

Database & Cloud: MongoDB, Microsoft SQL Server, MySQL, Firebase, REST APIs

DevOps & Tools: Git/GitHub, Docker (Basic), CI/CD Pipelines, Postman, Linux, Agile/Scrum

Experience

Technical Support

Chologhuri Limited

Gulshan, Dhaka
Dec 2024 – Present

- Maintained and optimized high-traffic web applications, resulting in a **15% reduction** in page load times through efficient code refactoring and state management optimization.
- Engineered a backward-compatible chat file system, restructuring the data format to support legacy search queries while enabling new rich-media features.
- Implemented robust error handling and logging pipelines, reducing the Mean Time to Resolution (MTTR) for critical production bugs by **20%**.
- Collaborated with cross-functional teams to integrate a React Native mobile prototype, ensuring API consistency between web and mobile platforms.

Publications

Leveraging Hyperledger Besu-Based Private Blockchain for IP Preservation

September 2025

Gazi Maliha Raisa Noor, **Md. Ashikul Islam**, Saba Al Mukter Mahin, Saha Reno

IEEE Explore: [10.1109/NCIM65934.2025.11160067](https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=1000000000000000000) ↗