

# MD IMRAN HOSSEN

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## PROFESSIONAL SUMMARY

Technology-fanatic Full-Stack Engineer and Team Lead with over 3.5 years of proven experience designing, architecting and implementing scalable microservices, high-performance APIs and the interfaces built on top of them. Promoted twice in three years at Pipeline Co., now leading an engineering team while remaining hands-on across Python (Django, Flask), Node.js and TypeScript on the server, and React and Next.js on the client. Robust expertise in database optimisation, event-driven systems, cloud infrastructure (AWS) and containerisation (Docker). Adept at tackling complex system design challenges, collaborating with stakeholders to deliver robust solutions, and mentoring developers to maintain high code quality.

## CORE COMPETENCIES & SKILLS

**Backend Engineering:** Node.js, Python, Express.js, Django, Flask, RESTful APIs, Microservices, Cache Management, Kafka, WebSockets, Celery, JWT, ZOD, Prisma

**Frontend Engineering:** JavaScript, TypeScript, React, Next.js, Redux, Zustand, TailwindCSS, MUI, Cypress

**Databases:** PostgreSQL, MongoDB, DynamoDB, TimeScaleDB, Pinecone, Redis

**Infrastructure & DevOps:** AWS, Docker, GitHub Actions, CI/CD, Git

**System Design:** Scalable Architecture, API-first Design, RBAC, complex architecture problem solving

**Leadership:** Team leadership, mentoring, code review, sprint planning, Agile collaboration, stakeholder communication

## PROFESSIONAL EXPERIENCE

### Pipeline Co., Ltd — Cybersecurity SaaS

Mar 2023 – Present · 3 yrs 7 mos

#### Team Lead – Software Engineering

Aug 2026 – Present · Dhaka, Bangladesh · Hybrid

- Team Leadership & Mentorship:** Lead and mentor a team of engineers, driving technical excellence, professional growth and delivery accountability.
- System Design & Architecture:** Guide technical decisions and scalable software architecture, setting standards for API contracts, data modelling and service boundaries.
- Project Planning & Delivery:** Lead sprint planning, task delegation and progress tracking, driving timely delivery of engineering initiatives.
- Code Quality & Standards:** Champion code quality, maintainability and engineering accountability through review standards and shared conventions.
- Cross-Functional Collaboration:** Partner with product and security stakeholders to resolve technical challenges early and keep delivery unblocked.
- Hands-On Development:** Stay hands-on with full-stack development using Python, Django, React, Next.js and TypeScript on critical-path features.

#### Software Engineer

Jul 2025 – Aug 2026 · Dhaka, Bangladesh · Remote

- System Architecture & Microservices:** Designed and maintained highly scalable microservices for a security SaaS platform using Node.js (Express) and Python (Django & Flask), adhering to an API-first architecture and modern design patterns.
- API Development & Integration:** Engineered and optimised RESTful APIs and real-time communication systems integrating Kafka and WebSockets, ensuring seamless data flow and high performance.
- Database Management:** Optimised schemas and managed complex data pipelines across relational and non-relational databases including PostgreSQL, MongoDB and Prisma, ensuring high data integrity and scalability.
- Full-Stack Delivery:** Built the React, Next.js and TypeScript interfaces consuming those services, owning features end to end rather than handing off at the API boundary.
- Mentorship & Code Quality:** Mentored junior developers, led code reviews and enforced strict coding standards in an agile collaborative environment.

#### Frontend Developer

Mar 2023 – Jul 2025 · Dhaka, Bangladesh · Remote

- Frontend Engineering:** Built high-performance web applications using React, Next.js, TypeScript and Redux, ensuring responsive and scalable user experiences.
- UI/UX Implementation:** Converted detailed Figma designs into clean, accessible interfaces, aligning UI/UX with business and user needs.
- Testing & Stability:** Wrote end-to-end tests with Cypress to ensure product stability and performance across browsers.
- Infrastructure & Deployment:** Managed CI/CD pipelines using GitHub Actions, deploying applications seamlessly to AWS environments.
- Backend Support:** Supported backend development with Python, Flask and Jinja2, enabling smooth frontend-backend integration.

## PROFESSIONAL PROJECTS

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### Risk Sensor | Real-time Cyber Threat Intelligence SaaS Platform

- **Backend & Cloud:** Architected the backend using Python (Django), Node.js (Express, TypeScript) and Go (Gin). Managed infrastructure and deployments utilising AWS, Docker and GitHub Actions.
- **Database Engineering:** Designed optimised data models utilising PostgreSQL, DynamoDB and Pinecone for high-speed threat data retrieval and vector similarity search.
- **Frontend Integration:** Delivered the React/TypeScript frontend on top of clean, documented and secure APIs, owning both sides of the integration.

### ThreatIDR | Enterprise Zero-Day Attack Protection (DNS Firewall)

- **Backend Architecture:** Developed robust backend systems utilising Python (Flask) and Celery for asynchronous task queueing and processing.
- **Real-time Processing:** Integrated WebSockets for live threat monitoring and utilised TimeScaleDB and PostgreSQL for efficient time-series data storage and analysis.

## PROBLEM SOLVING & COMPETITIVE PROGRAMMING

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- **Algorithms & Data Structures:** Actively solve complex technical and algorithmic challenges across competitive programming platforms to ensure optimal code performance.
- **System Design:** Proficient in applying principles from complex architecture scaling, capable of designing fault-tolerant and high-availability systems.

## EDUCATION

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### Bachelor of Science in Computer Science and Engineering

East Delta University · *Final Year*

### Diploma in Computer Science Technology

Patuakhali Polytechnic Institute · Aug 2018 – Jan 2023

## LANGUAGES & HOBBIES

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- **Languages:** English, Bengali
- **Hobbies:** Playing Games (Cricket & Football), Reading Books (Novels)