

# MD. ZIHADI HAQUE

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## PROFILE

Backend Software Engineer with 1+ year of professional experience building scalable web applications and RESTful APIs using Node.js, Express.js, and Go. Currently engineering backend solutions at M360 ICT for Trabill, a comprehensive travel agency management software. Proven track record of improving system performance through database optimizations and delivering high-impact features. Proficient in database design (MySQL, PostgreSQL, MongoDB, Redis), cloud deployment. Strong computer science fundamentals in Data Structures, Algorithms, and System Design, complemented by 500+ problem-solving achievements. Seeking opportunities to leverage backend expertise and technical leadership skills in building robust, production-grade systems.

## EDUCATION

**Chittagong University Of Engineering and Technology**

*Bachelor of Science in Computer Science & Engineering*

**CGPA:** 3.27/4.0

*Chittagong, Bangladesh*

*Graduation: May 2025*

**Rangpur Govt. College**

*Higher Secondary School Certificate in Science (GPA: 5/5)*

*Rangpur, Bangladesh*

*2019*

**Rangpur Zilla School**

*Secondary School Certificate in Science (GPA: 5/5)*

*Rangpur, Bangladesh*

*2017*

## SKILLS

- **Languages:** C, C++, Python, TypeScript, Go
- **Web Development:** HTML5, CSS3, React.js, Next.js, Tailwind CSS, REST, GraphQL
- **Backend APIs:** Node.js (Express.js), Go (Gin), JWT, WebSocket
- **Database ORM:** PostgreSQL, MySQL, MongoDB, Prisma, Redis
- **AI/ML:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, OpenCV
- **DevOps Tools:** Docker, Git, GitHub Actions, Nginx, PM2
- **Cloud Deployment:** Vercel, Netlify, Railway, Firebase, Linux (Ubuntu)
- **Testing Monitoring:** Postman, Jmeter, Blazemeter

### M360 ICT

*Junior Software Engineer (Backend)*

*September 2025 – Present*

*On-site*

- Engineering and maintaining backend services for **Trabill** ([trabill.biz](http://trabill.biz)), a full-stack travel agency management platform supporting B2B and B2C business operations.
- Designing and developing scalable RESTful APIs in Node.js (Express) and Knex that power core modules such as air-ticket issuance, bookings, client management, accounting, and financial workflows.
- Implementing secure API key systems for OTA partners, including hashed key verification, controlled exposure policies, and admin-side visibility mechanisms.
- Optimizing complex MySQL queries, indexing strategies, and caching layers using Redis to reduce report generation times, improve high-load performance, and enhance overall system reliability.
- Building invoice automation workflows including PDF parsing, data extraction pipelines, and dynamic invoice creation for travel bookings and financial operations.
- Collaborating closely with product, QA, and frontend teams in an Agile environment to deliver stable releases, resolve production issues, and ensure seamless user experience for agency clients.

### The Tork

*Junior Software Engineer (Frontend)*

*October 2023 - November 2024*

*Chittagong, Bangladesh*

- Built a Learning Management System (LMS) using React and Node.js, implementing dynamic content delivery and user authentication, leading to a 30% improvement in student engagement.

### Dynamic Solution Innovators Ltd.

*Industrial Attachment*

*December 2024 - January 2025*

*Mohakhali DOHS, Dhaka, Bangladesh*

- Gained hands-on experience with the Software Development Life Cycle (SDLC) and explored Java Spring Boot for backend development.
- Learned about various frontend architecture patterns, including atomic design and feature-based structures, enhancing understanding of scalable and maintainable codebases.

## PROBLEM SOLVING

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- Solved 500+ problems across competitive programming platforms
- LeetCode: [zhhimel](#)
- Codeforces: [zhhimel](#)

## PROJECTS

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<b>CUET Bus</b>	<i>Next.js, Express.js</i>
A bus ticket booking system for CUET students, reducing manual effort.	
<b>CUET E-Kroy.com</b>	<i>MERN Stack</i>
A web application for a grocery shop in CUET.	
<b>CUET TSC</b>	<i>MERN Stack</i>
An online food delivery website for CUET TSC.	
<b>Distributed Caching System</b>	<i>Redis, Node.js</i>
Implemented a caching layer that improved data retrieval speed.	
<b>CERTIFICATES</b>	
<b>Supervised Machine Learning: Regression and Classification</b>	<i>Coursera</i>
<b>SQL (Basic) Certificate</b>	<i>HackerRank</i>

## ORGANIZATIONS

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- **CUET Computer Club**, Assistant General Secretary *09/2024 – Present*  
Chittagong, Bangladesh
- **IEEE Computer Society (CUET Branch)**, Chair (Development Wing) *09/2023 – Present*  
Chittagong, Bangladesh

## RESEARCH PAPERS

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<b>A Unified Approach for Skin Lesion Classification on Generated Segmented Dataset</b>	<i>International Conference on Electrical, Computer and Communication Engineering (ECCE), 2025</i>
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