

# 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

<b>Chittagong University Of Engineering and Technology</b> <i>Bachelor of Science in Computer Science &amp; Engineering</i> <b>CGPA:</b> 3.27/4.0	<i>Chittagong, Bangladesh</i> <i>Graduation: May 2025</i>
<b>Rangpur Govt. College</b> <i>Higher Secondary School Certificate in Science (GPA: 5/5)</i>	<i>Rangpur, Bangladesh</i> <i>2019</i>
<b>Rangpur Zilla School</b> <i>Secondary School Certificate in Science (GPA: 5/5)</i>	<i>Rangpur, Bangladesh</i> <i>2017</i>

## 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

<b>M360 ICT</b> <i>Junior Software Engineer (Backend)</i>	<i>September 2025 – Present</i> <i>On-site</i>
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- Engineering and maintaining backend services for **Trabill** ([trabill.biz](https://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.

<b>The Tork</b> <i>Junior Software Engineer (Frontend)</i>	<i>October 2023 - November 2024</i> <i>Chittagong, Bangladesh</i>
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- 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.

<b>Dynamic Solution Innovators Ltd.</b> <i>Industrial Attachment</i>	<i>December 2024 - January 2025</i> <i>Mohakhali DOHS, Dhaka, Bangladesh</i>
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- 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

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

PROJECTS

<a href="#">CUET Bus</a>	<i>Next.js, Express.js</i>
A bus ticket booking system for CUET students, reducing manual effort.	
<a href="#">CUET E-Kroy.com</a>	<i>MERN Stack</i>
A web application for a grocery shop in CUET.	
<a href="#">CUET TSC</a>	<i>MERN Stack</i>
An online food delivery website for CUET TSC.	
<a href="#">Distributed Caching System</a>	<i>Redis, Node.js</i>
Implemented a caching layer that improved data retrieval speed.	

CERTIFICATES

<a href="#">Supervised Machine Learning: Regression and Classification</a>	<i>Coursera</i>
<a href="#">SQL (Basic) Certificate</a>	<i>HackerRank</i>

ORGANIZATIONS

<ul style="list-style-type: none"><li>• <b>CUET Computer Club</b>, Assistant General Secretary Chittagong, Bangladesh</li></ul>	<i>09/2024 – Present</i>
<ul style="list-style-type: none"><li>• <b>IEEE Computer Society (CUET Branch)</b>, Chair (Development Wing) Chittagong, Bangladesh</li></ul>	<i>09/2023 – Present</i>

RESEARCH PAPERS

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