






Rahat Kabir Dhrubo

Software Engineer

 Uttar Badda, Dhaka 1212 |  rahatkabir20@gmail.com |  +880-1754-957665
 [GitHub](#) |  [LinkedIn](#)

Summary

Results-driven Software Engineer with 3+ years of experience in designing and developing scalable, high-performance web applications. Proficient in Angular, TypeScript, and Node.js, with expertise in RESTful APIs, microservices architecture, database optimization, and cloud-based deployment. Adept at real-time tracking systems, UI/UX optimization, and Agile/Scrum development. Passionate about writing efficient, maintainable code, implementing secure authentication protocols, and solving complex software challenges.

Technical Skill

Programming Languages

JavaScript, TypeScript, C++

Frontend Technologies

Angular, RxJS, NgRx, SCSS, Tailwind CSS, Bootstrap, Angular Material

Backend & Databases

Node.js, Express.js, NestJS, Prisma, MongoDB, MySQL, PostgreSQL

Cloud & DevOps

AWS, Firebase, CI/CD, Docker, Kubernetes

Development Tools

VS Code, WebStorm, Git, GitHub, GitLab, Postman, Figma, Jira

Software Development Methodologies

Agile, Scrum, TDD (Test-Driven Development), REST APIs, Microservices Architecture

Experience

Software Engineer – [Shamolima Ltd.](#) (May 2024 – Present)

 Gulshan 1, Dhaka, Bangladesh

- **Leading the development of supply chain management systems, specializing in trip management, real-time transportation tracking, and map-based route optimization to enhance logistics operations.**

- Designed and implemented **advanced features** for **real-time shipment and vehicle monitoring**, improving transparency and operational efficiency.
- **Optimized routing algorithms**, reducing **delivery times and operational costs by 15%**, contributing to **better supply chain performance**.
- Collaborating with **cross-functional teams** (product managers, designers, and QA engineers) to ensure **high-quality software delivery** aligned with business goals.
- Conducting **comprehensive testing & troubleshooting** to **maintain system reliability** and address real-world challenges in supply chain operations.

Associate Software Engineer – [Athod Tech Ltd.](#) (March 2023 – March 2024)

📍 Jaipur, India

- Developed the **MAAP platform**, focusing on **scalability, performance optimization, and secure authentication** using **Angular, TypeScript, and Firebase**.
- Customized **Velzon (Angular 15-based admin dashboard)** for **improved UI/UX and enhanced data visualization**.
- Implemented **JWT-based authentication and single-session authorization**, improving **user session security by 50%**.
- Designed **tab-wise reactive forms** for **seamless, structured household data collection**.
- Refactored **monolithic components** into **reusable, modular components**, improving **code maintainability and reusability**.

Associate Software Engineer – [AITS Idea Ltd.](#) (Jan 2023 – Feb 2023)

📍 Uttara, Dhaka, Bangladesh

- Designed and developed **SILENCE V2**, implementing **multiple navigation styles** for **enhanced user experience**.
- Developed a **robust security module** with **role-based access control (RBAC) and module-level permission management**.
- Built **RMS_POS (Restaurant Management System)** for **real-time order management, inventory tracking, and sales analytics**.

Junior Software Engineer – [AITS Idea Ltd.](#) (July 2021 – Dec2022)

📍 Uttara, Dhaka, Bangladesh

- **Led the R&D and UI redesign** of the official **AITS Idea Ltd. website**, utilizing **Angular, SCSS, and Tailwind CSS** to enhance **user experience and performance**.
- **Developed a public website** for **Islam Metal Ltd., a sanitary product manufacturer**, using **Angular, SCSS, Tailwind CSS, and Angular Material**.
- Spearheaded the **development of a Point of Sale (POS) application**, implementing modules for **purchase, inventory, sales, and accounting**.
- Integrated a new feature ("**Receipt of Sale List**") in **SILENCE ERP**, improving **transaction tracking and reporting**.
- **Authored comprehensive technical specifications** for **AITS Idea Ltd. products**, supporting **product branding and marketing**.
- Designed and developed the **UI of ELMA Education Management System** using **Angular, SCSS, Angular Material, and Tailwind CSS**.

- **Conducted UI design research** for Ayurvedic product marketing websites, creating a **customized design for Jain Laboratories** using **Figma**.
- Enhanced **SILENCE ERP** by adding an **apartment management service desk feature** using **Angular, SCSS, and Tailwind CSS**.
- **Implemented dark and light mode functionality** in **Point of Sale applications** for improved accessibility.
- Played a key role in the **development of SILENCE V2**, integrating **fully dynamic tables with pagination and search** for **better data management**.
- **Developed official websites** for various **SILENCE ERP products**, including:
 - **BONIK** (Business Management)
 - **DOCTORALOY** (Healthcare Management)
 - **ELMA** (Education Management System)
 - **JOMIDAR** (Real Estate ERP)
 - **MEDICARE** (Medical Services Platform)

Education

🎓 **B.Sc. in Computer Science & Engineering** (CGPA: 3.69)
 📌 Dhaka International University (2019 – 2022)

📌 **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Database Management Systems, Cloud Computing, Web Development

📌 **Competitions & Hackathons:**

- ✓ **Dhaka Regional ICPC** (2019, 2020, 2021)
- ✓ **BUET Inter-University Programming Contest (IUPC) – 2022**
- ✓ **SUST SWE-TECNOVENT Hackathon – 2023**

Extra-Curricular Activities

Assistant General Secretary, DIU CPC, Dhaka International University
 July 2021 – Present

- Organized ‘NASA Space Apps Challenge 2021’ Workshop
- Coordinated ‘Grace Hopper Girl's Programming Camp at DIU’
- Organized 6 programming contests at Dhaka International University
- Hosted “All About Competitive Programming” workshop
- Led ‘DIU Intra University IT Carnival 2022’
- Conducted “Chase the Web with Laravel & Introduction to Robotics” workshop
- Organized NASA Space Apps Challenge 2022 Workshop
- Managed ‘DIU Intra University IT Fest 2022’

Executive Committee Member, DIU CPC, Dhaka International University
 August 2019 – June 2021

- Re-established the club post-2015
- Organized the ‘Mujib Borsho IT Carnival’, a mega event.
- Hosted 11 programming contests at Dhaka International University
- Conducted a virtual workshop on Competitive Programming
- Led the introduction of the ‘CodeChef DIU Chapter’ on an Indian coding platform
- Established AlgoHub to teach data structures and algorithms
- Created DIU CPC CodeFode League for teaching C programming



- Organized a webinar on the upcoming ICPC Programming Contest 2020
- Developed the official website of DIU CPC

Event Lead, DIU CPC, Dhaka International University

August 2019 – June 2021

- Organized many online programming contests at Dhaka International University.
Set problem sets for DIU Intra University IT Carnival 2022 with CodeChef

Research and Publications

 **Polling Booth-Based E-Voting Scheme Using Blind Signatures** (IEEE, 2024)
 [DOI: 10.1109/10625521](https://doi.org/10.1109/10625521)

- Developed a **secure, blockchain-based e-voting system** using **RSA encryption and blind signature cryptographic techniques**.
- Focused on **data integrity, auditability, and privacy preservation** in **electronic voting systems**.

Problem-Solving

Hackerrank

✓ Problems Solved: 52 |  [Profile](#)

Uva Online Judge

✓ Problems Solved: 10 |  [Profile](#)

CodeChef

✓ Problems Solved: 86 |  [Profile](#)

Codeforces

✓ Problems Solved: 22 |  [Profile](#)

Language

 **Bengali** – Native

 **English** – Professional Working Proficiency