

Md Tahmid Islam Bhuiyan

Software Engineer
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PROFESSIONAL SUMMARY

Experienced Full-stack Software Engineer with 3+ years of experience designing and delivering scalable enterprise web applications in accounting and microfinance domains. Strong expertise in micro-service architecture, object-oriented design (OOP), RESTful API development, and relational database modeling. Experienced in translating complex business requirements into maintainable technical solutions, applying industry-standard design patterns, and optimizing system performance for production environments. Proven ability to deliver high-quality software within deadlines while ensuring scalability, reliability, and long-term maintainability.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, SQL

Backend Frameworks: Express.js, Hapi.js (Node.js), RESTful API Design, Microservices Architecture

Frontend: Angular, Nuxt, Tailwind CSS, Bootstrap

Databases: PostgreSQL, Oracle (PL/SQL), MySQL, Redis

Architecture & Design: Clean Architecture, OOP, Design Patterns, Scalable System Design

DevOps: Docker, Nginx, GitLab Runner (Self-hosted), GitHub Actions, CI/CD Automation

Testing & Quality: Jest, Cypress, API Testing, Code Review Practices

Reporting & Visualization: JasperStudio (PDF Reports), ApexCharts

PROFESSIONAL EXPERIENCE

• Software Engineer

Celloscope Ltd., Dhaka

Full-Time

January 2025 – Present

- Leading end-to-end development of enterprise accounting and loan management systems serving multi-branch financial institutions.
- Designed scalable backend architecture and complex financial business logic using Express.js and PostgreSQL, improving transaction processing efficiency by approximately 30%.
- Designed and optimized relational database schemas handling large financial datasets, reducing query response time by 25%.
- Implemented secure authentication and role-based authorization ensuring compliance with financial data access policies.
- Conducted code reviews and enforced clean coding standards to maintain system reliability and long-term maintainability.
- Collaborated directly with stakeholders to analyze requirements and deliver features within sprint timelines.
- Automated deployment pipelines using Docker, Nginx, and GitLab Runner, reducing manual deployment effort by 40%.
- Wrote Python scripts for legacy data migration, validating and migrating thousands of financial records with high accuracy.

• Junior Software Engineer

Celloscope Ltd., Dhaka

Full-Time

August 2023 – June 2025

- Developed and maintained accounting, inventory, HR, and loan management modules for enterprise-grade systems.
- Translated business requirements into scalable backend solutions using Hapi.js following clean architecture principles.
- Optimized database queries and indexing strategies, improving reporting performance by approximately 20%.
- Built responsive, production-ready frontend interfaces using Angular and Tailwind CSS.
- Implemented PDF financial reporting and dynamic dashboards for executive-level insights.
- Participated in requirement discussions, sprint planning, and cross-functional collaboration with clients and team members.

- Contributed to frontend and backend development of enterprise systems using Angular and Hapi.js.
- Assisted in developing RESTful APIs and database models for production applications.
- Gained hands-on experience in enterprise development workflows, version control, and structured testing practices.

KEY PROJECTS

Hisab – Accounting Application

- Designed system architecture and database schema.
- Implemented authentication, authorization, and backend APIs.
- Automated CI/CD pipeline using Docker and GitLab Runner.

IMS – Integrated Microfinance Solution

- Designed database schemas and implemented complex PL/SQL financial logic.
- Developed dynamic reporting components and REST APIs.
- Implemented dashboards and PDF financial reports.

OMS – Office Management System

- Designed loan modules and financial calculation logic.
- Implemented reporting and legacy data migration using Python.

EDUCATION

- **B.Sc. in Computer Science and Engineering**
American International University-Bangladesh (AIUB)
2019 – 2023
- **M.Sc. in Computer Science and Engineering (Ongoing)**
Jahangirnagar University
2024 – Present

CORE COMPETENCIES

- Strong analytical and problem-solving skills
- Experience in requirement analysis and technical documentation
- Clean code practices and object-oriented design principles
- Ability to learn new technologies quickly
- Strong communication skills in English (written and spoken)
- Proactive, self-driven, and delivery-focused mindset