



## Nipun Paul

**Nationality:** Bangladeshi **Date of birth:** 13/11/1999

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**Website:** <https://nipun4338.github.io/>

**Home:** Mirpur 9, Dhaka (Bangladesh)

### ABOUT ME

Proactive Software Engineer with **3 years of experience** building **scalable digital systems** using modern full-stack platforms. Demonstrated **leadership** in **product delivery**, **software architecture**, workflow automation, and cross-functional collaboration, consistently improving system efficiency and user impact. Highly motivated to pursue higher studies to contribute to **sustainable**, inclusive, and **socially responsible** digital development in Bangladesh.

### WORK EXPERIENCE

**Enosis Solutions** – Dhaka, Bangladesh

Website: <https://www.enosisbd.com/> | Business or sector: Information and communication

#### Senior Software Engineer – Level I

[ 01/02/2025 – Current ]

- Developed a full-scale **Project Management System (PMS)** using **PostgreSQL, NestJS, ReactJS, NodeJS**.
- Built **modular APIs**, scalable DB schemas, and reusable UI components to support rapid feature expansion.
- Implemented **secure authentication (JWT)**, **RBAC**, task workflows, real-time updates, notifications, and audit logging.
- Improved platform reliability by enforcing **CI-ready architecture**, strict validation, and robust error-handling patterns.
- Increased performance through **lazy loading**, **caching**, and **optimized pagination**, reducing load time significantly.
- Built **webhook integrations** with rate-limit handling to ensure stability under high-volume external requests.
- Ensured maintainability through **code reviews**, **unit testing**, and strong **TypeScript** type-safety practices.

#### Software Engineer – Level II

[ 01/02/2024 – 31/01/2025 ]

- Developed a **Payment Approval System (PAS)** end-to-end using the PERN stack.
- Built reusable UI components and a **multi-level approval workflow** for structured payment processing.
- Implemented **RBAC**, in-app notifications, and **Slack API integrations** to streamline approval cycles.
- Improved financial workflow reliability by handling **concurrency cases**, report generation, and optimized backend queries.

#### Software Engineer – Level I

[ 15/02/2023 – 31/01/2024 ]

- Enhanced and expanded an enterprise **Desk Reservation System (DRS)** built on the PERN stack.
- Developed **dashboards and analytics** for workspace utilization, reservation patterns, and user activity.
- Built **SVG-based floor maps**, recurring reservations, timezone-aware scheduling, and attendance features.
- Integrated **Slack notifications**, **Google Analytics**, and webhooks for real-time updates and external sync.
- Improved UX and performance through **reusable Material-UI components** and optimized backend queries.
- Ensured accurate multi-floor, multi-location reservations with strong conflict resolution and time-conversion logic.

## EDUCATION AND TRAINING

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### BSC IN COMPUTER SCIENCE AND ENGINEERING (CSE)

*Ahsanullah University Of Science and Technology* [ 04/2018 – 01/2023 ]

City: Dhaka | Country: Bangladesh | Website: <https://www.aust.edu/> | Field(s) of study: CSE | Final grade: CGPA 3.381 / 4.00 (Last 5 semesters: 3.656) | Thesis: Decentralized Election System (Blockchain and Crypto Based Vote Transaction)

### HIGHER SECONDARY SCHOOL CERTIFICATE (HSC)

*Rajuk Uttara Model College* [ 2015 – 2017 ]

City: Dhaka | Country: Bangladesh | Website: <https://rajukcollege.edu.bd/> | Field(s) of study: Science | Final grade: GPA 5.00 / 5.00

### SECONDARY SCHOOL CERTIFICATE (SSC)

*Anjuman Adarsha Govt. High School* [ 2010 – 2015 ]

City: Netrokona | Country: Bangladesh | Field(s) of study: Science | Final grade: GPA 5.00 / 5.00

## SKILLS

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### Technical

JavaScript / TypeScript / ReactJS / NodeJS / NestJS / ExpressJS / C++ / C# / Python (computer programming)

### Databases

PostgreSQL / MySQL / SQL Server

### DevOps & Tools

Docker / Atlassian tools (Jira, Confluence, Bitbucket) / SourceTree / PgAdmin4 / Visual Studio Code / Remix IDE

### Development Focus

Scalable system design / Workflow automation / Data-driven systems

## PROJECTS

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**MotherCare – Emergency Maternity Health Shop** Built an online platform to support access to **maternity essentials** during the pandemic. Includes product management, ratings, category filters, PayPal integration, and admin dashboards. Developed using **HTML, CSS/SCSS/LESS, JavaScript, C#, SQL, Bootstrap, jQuery, AJAX** on **ASP. Net MVC** framework.

Link: <https://github.com/Nipun4338/mothercare>

**Project Boi – Book Selling Platform** Developed a feature-rich book-exchange platform with authentication, multi-level comments, wishlist, chat, image uploads, and complete admin control. Built with **HTML, CSS/SCSS/LESS, JavaScript, PHP, SQL, Bootstrap, jQuery, AJAX**. Hosted on **GitHub & Heroku** with **Cleardb Ignite** database.

Link: <https://github.com/Nipun4338/boi>

**Neer – Digital House Rent Advertisement App** Built an Android-based rental listing app with live chat, profile management, and search filters. Built for **Android API 19–30** with **Firebase** backend.

Link: <https://github.com/Nipun4338/Neer>

**ZEN - Smart Home with Voice Assistance** Created a sensor-based automation system supporting voice commands, security alerts, fire and gas detection, and automated temperature-based adjustments. Built using **Arduino Mega, sensors (PIR, LM35, MQ-04, water level), LCD, keypad, buzzer, relay modules**, and **Bluetooth HC-05**.

Link: <https://github.com/Nipun4338/ZEN---Smart-Home-with-Voice-Assistance>

## PUBLICATIONS

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[2023]

### **Bengali-English Neural Machine Translation Using Deep Learning Techniques**

Journal Name: International Conference on Electrical, Computer and Communication Engineering (ECCE)

First author

## LANGUAGE SKILLS

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**Mother tongue(s):** Bengali

**Other language(s):**

**English**

**LISTENING** C1 **READING** C1 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ACHIEVEMENTS / AWARDS

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**CODEWARE 2019 - 8th Place (Team: INT\_CONST\_2\_1)**

**ICPC Preliminary 2019 - 371st Place (Team: AUST\_Sacred Coders)**

Link: <https://icpc.global/ICPCID/581CCRPWUTUZ>

**Government Scholarship 2015 (Talentpool)**

Issued by Secondary School Certificate Examination.

**Government Scholarship 2013 (General)**

Issued by Junior School Certificate Examination.

**6th Language Competition 2010 – 13th Place (Divisional Phase, qualified for National Division)**

Issued by HSBC, Prothom Alo.

**Solved 1000+ programming problems in online judges**

Link: <https://clist.by/coder/NX4338/>

## VOLUNTEERING

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[ 2019 – 05/2022 ]

**AUST Innovation and Design Club**

Progressed from **Member** (2019) → **Sub - Executive Committee** (2021)

Notable responsibilities:

- Oversaw departmental activities, leading a team to digitize club event management and registration workflows.
- Developed automation tools that reduced administrative workload and improved data accuracy.
- Supported programming events, training, and community-oriented technical activities.

Link: <https://austidc.org/spring-21/>

[ Current ]

**Lifetime Member – Bangladesh Red Crescent Society**

Supported humanitarian activities, emergency response, and community programs.

[ 01/2019 – 01/2021 ]

**AUST ACM ICPC Lab**

Engaged in competitive programming training, and problem-solving sessions.

## RECOMMENDATIONS

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**Name: Md. Tanvir Ahmed** | Software Development Lead, Enosis Solutions

*Professional supervisor during my industry work at Enosis Solutions.*

Email: [tanvirahmed14@gmail.com](mailto:tanvirahmed14@gmail.com) | Phone number: (+880) 1343039289

Link: <https://bd.linkedin.com/in/md-tanvir-ahmed-a23a0a8b>

**Name: Md Tanvir Rouf Shawon** | Lecturer (Grade-I), Ahsanullah University of Science and Technology (AUST)

PhD Student, George Mason University

*Academic supervisor during my research and academic activities.*

Email: [shawontanvir95@gmail.com](mailto:shawontanvir95@gmail.com)

Link: [https://aust.edu/cse/faculty\\_member/mr\\_md\\_tanvir\\_rouf\\_shawon](https://aust.edu/cse/faculty_member/mr_md_tanvir_rouf_shawon)