

# TASMIA ALAMGIR

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## SKILLS & INTERESTS

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Software Engineering, Software Maintenance, Web Application Development, Unit Testing, Software Requirement Analysis

## EDUCATION

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**Bachelor of Science in Software Engineering**, [Shahjalal University of Science & Technology, Institute of Information and Communication Technology \(IICT\)](#) December 2016 - February 2021

**CGPA: 3.54**

## EXPERIENCE

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**Software Engineer I - Web Engineering Team** October 2020 - December 2022  
**Pathao Limited** *Dhaka, Bangladesh*

- Revamped and optimized customer service dashboard by implementing Redis for API data caching, enhancing user experience by 50% and increasing system efficiency by 20%.
- Integrated advanced features in customer service software, including log management, analytics, and report building using MongoDB, leading to improved data handling for administrative purposes and user interface adaptability.
- Crucially contributed to the agile development and ongoing maintenance of 'Pathao for Business', significantly enhancing its operational efficiency and project life-cycle management. Performed unit-testing for crucial feature development.
- Collaboratively designed and developed Pathao Payment services administrative dashboard, implementing maker-checker and role-based features, streamlining payment processes and enhancing administrative functionality.
- Revamped previous internal web services for restaurant vendors and merchandise with new feature development, role-based operation control services and optimized system performance and user engagement by nearly 40%.

**Research Intern** Summer'22  
Rochester Institute of Technology *Rochester, USA*

- A qualitative study to characterize the data points of human social attributes and techniques involved in software development that has the potential to create attack surface within the system.

**Advisor & Collaborators:** [Dr. Mehdi Mirakhorli](#), (RIT)

**Intern - Web Engineering Team** January 2020 - October 2020  
**Pathao Limited** *Dhaka, Bangladesh*

- Developed an API Gateway Boilerplate using ExpressJS and NodeJS, streamlining data fetching from multiple microservices and enhancing security and efficiency by nearly 20%.
- Developed Pathao's CX Dashboard, integrating VueJS and NodeJS for front-end and back-end solutions, and utilized MongoDB and Redis for data management and caching.
- Contributed in design, development to the B2B Dashboard project, focusing on backend API implementation and integration, error handling, and codebase refactoring to improve project readability and control.

## SKILLS

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<b>Languages</b>	JavaScript, Java, C, C++, SQL
<b>Front-end</b>	HTML, CSS, Tailwind CSS, EJS, VueJS, ReactJS, JQuery, Bootstrap
<b>Back-end</b>	NodeJS, ExpressJS, Spring Framework, Redis, Minio
<b>Database</b>	MongoDB, MySQL
<b>DevSecOps &amp; VCS</b>	Docker, Kubernetes, Google Cloud Platform, Unit Testing (mocha, chaiJS), Git
<b>Application Management Tools</b>	Sentry, Jira

## ACHIVEMENTS

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**1st Runner-up at Pathao Developers' Hackathon** July 2021  
**WeJam:** Developed a new scalable, robust, bandwidth efficient service architecture to handle HTTP connections like websocket for different systems (e.g. push notification system)