

# Tahsin Alamgir Kheya

DHAKA, Bangladesh

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## Personal Profile

Hi there! My name is Kheya, and I take pleasure in crafting uncomplicated yet elegant creations for both business and individual use. I'm constantly looking for opportunities to apply my expertise in web development to produce visually appealing and user-friendly applications and websites. In my free time, I like to play Genshin Impact, watch movies, and doodle.

## Skills

**Programming** React JS, Next JS, Java, Python, Python Flask, Flask-restx, HTML/CSS, JavaScript, Oracle SQL, Flutter, Docker.  
**Miscellaneous** Firebase, Git, Tailwind, Bootstrap, Material UI,  $\text{\LaTeX}$ (Overleaf/Markdown, ), Tableau, Microsoft Office, Power BI  
**Soft Skills** Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Education

### Monash University

Selangor, Malaysia

Bachelor of Software Engineering

Feb 2019 - Dec 2022

- Grade: H1 (First-class Honours)
- CGPA: 3.84 WAM: 80.818

### DELHI PUBLIC SCHOOL DHAKA

Dhaka, Bangladesh

High School

Aug 2013 - Jun 2018

- CAMBRIDGE INTERNATIONAL CERTIFICATE OF EDUCATION O LEVEL : 4A\* 4A
- CAMBRIDGE GENERAL CERTIFICATE OF EDUCATION A LEVEL : 1A\* 1A 1B

## Work Experience

### Intercloud Limited

Dhaka, Bangladesh

Full-time Software Engineer

Jan 2023 - Present

- Improved the UI for certain services for Brilliant Cloud Portal by following Nielsen's Heuristics to promote usability
- For some of the projects, I implemented the use of "hydrate" instead of "render" to enhance performance by nearly 40 percent and improve search engine optimization. Hydrate uses server side rendering to improve performance.
- I carried out research aimed at discovering methods for creating and executing user-friendly interfaces. This involved engaging with clients and gathering insights from end users.
- I undertook an investigation into the process of developing a conversational AI system and explored the utilization of cloud computing to facilitate its deployment.
- Moreover, I was given the task of reorganizing a portion of their codebase and substantially minimizing the occurrence of duplicate code, which contributed to enhancing its maintainability.
- Redesigned the pricing page completely. For this page I integrated an animated price calculator into the Brilliant Cloud portal. The animation enhances user engagement and helps guide their attention to specific elements.
- I designed a page to display each product offered by InterCloud, using a consistent code structure that can be easily modified for each product. By reusing the same code with minor adjustments, maintenance is simplified.
- I worked on the front-end for Brilliant Connect's ticketing system, ensuring that it is fully responsive and features a user-friendly interface with smooth navigation.
- I was responsible for developing the admin portal of Cloud Docs, enabling administrators to modify information displayed on the documentation page.
- I was part of the front-end team to create a dashboard for a middleware sms portal.
- **Technical Skills:** React JS, Next JS, Material UI, Tailwind, Docker, Flask
- **Soft Skills:** Problem-solving, Creativity, Teamwork, Time Management, Research, Communication, Presentation skills.

### Aqualink Bangladesh Limited

Dhaka, Bangladesh

Part-time Software Engineer

Feb 2023- Apr 2023

- I designed the dashboard for the Sensometer web application using Figma, ensuring that the design prioritizes user experience (UX) and promotes usability.
- While developing the Sensometer web application, I focused on the user interface (UI) of the application and made sure it was responsive and easy to use.
- To facilitate future maintenance and scalability, I made sure to avoid duplicate code and promote code reusability.
- **Technical Skills:** React JS, Bootstrap, CSS, Figma, UI/UX
- **Soft Skills:** Usability Design, Creativity, Teamwork, Time Management, Communication.

- I was able to acquire expertise in software and web development during my time as an intern here.
- I had the opportunity to participate in several projects, including the development of an S3 storage application, a documentation page for Intercloud's cloud services, a leave application system, and various other smaller projects.
- I refactored the codebase of the admin portal, eliminating redundant code and improving readability for future developers who need to modify or understand the code.
- **Technical Skills:** React JS, Material UI, Flask(Python), Bootstrap, Git
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

## University Projects and Research

### HEARD: A MOBILE APPLICATION FOR THE DEAF

Selangor, Malaysia

Monash University

Feb 2022 - Dec 2022

- I was involved in the development of a mobile application that serves the communication needs of the deaf community by connecting them with suitable sign language interpreters. In this role, I worked on several features such as enabling users to record video call sessions, providing improved chat functionality with multimedia support, and more.
- I adhered to the Scrum methodology to ensure a seamless software development process and timely delivery.
- We conducted frequent testings and gathered feedback from doctors, sign language interpreters, and members of the deaf community to improve our features.
- As a professional, I utilized negotiation skills to persuade clients who requested unfeasible features to reconsider their demands.
- **Technical Skills:** Flutter, Android Development,
- **Soft Skills:** Time Management, Client Negotiation, Teamwork, Presentation skills, Report writing.

### PRIME SUMMER HEALTHCARE APP FOR CARING PHARMACY

Selangor, Malaysia

Monash University

Nov 2021 - Dec 2021

- I utilized JavaScript, Firebase and the Bootstrap web development framework to design the Admin Dashboard web page for Caring Pharmacy.
- As a code developer and project manager of an agile team consisting of six members, I undertook the responsibility of ensuring the delivery of high-performing and high-quality products after every increment.
- To accomplish this, I created and upheld schedules for my team members to adhere to.
- **Technical Skills:** Firebase, JavaScript/HTML, Bootstrap, Mockups.
- **Soft Skills:** Time Management, Client Negotiation, Teamwork, Presentation skills, Documentation.

### Fairness Evaluation of Text-to-Image Model using Metamorphic Testing (Research)

Selangor, Malaysia

Monash University

Feb 2022 - Nov 2022

- I went through various publications, starting my research by delving into the topic of Metamorphic Testing.
- Researched to solve issues like the oracle problem and test case generation problem.
- I devised a thorough set of metamorphic relations intended for testing the model. Initially, these were tailored for a specific text-to-image model. However, due to encountered setbacks, we had to switch to a different model. Undeterred, I formulated slightly adjusted metamorphic relations that remain applicable and valuable for the new model.
- I participated in collaborative trial and error coding sessions with fellow team members. Together, we fine-tuned an open-source text-to-image model, experimenting with various adjustments and modifications.
- Identified and modified open source codes available online for crawling images, which are apt for our project.
- Trained model, conducted tests and inspected the outcomes with the rest of my team. I also contributed in writing and explaining about the results for our paper.

## Achievements

2019-2022 **Monash University Malaysia**, Monash Faculty of Engineering Dean's Honour List

Malaysia

2018 **Duke of Edinburgh**, The Duke of Edinburgh's Award - Bronze level

Bangladesh

2017 **Daily Star**, Daily Star Certificate of Excellence

Bangladesh

2017 **Delhi Public School Dhaka**, School Prefect

Bangladesh

## Languages

**English** Professional proficiency**Bengali** Native proficiency