

Mehadi Hasan

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Education

Sylhet Engineering College, School of Applied Science & Technology, SUST

Tilaghor, Sylhet

Bachelor of Science in Computer Science And Engineering (GPA: 3.74 / 4.00)

Dec 2019 - Current

- **Relevant Coursework:** Data Structures and Algorithms (C++), Data Science, Object Oriented Programming, Computer Networks, Operating System, Compiler Design, Cryptography and Network Security, Computer Graphics, Microprocessor and Micro-controller, Artificial Intelligence, Digital Image Processing

BAF Shaheen College

Shamshernagar, Moulvibazar

Higher Secondary Certificate in Science (GPA: 4.83 / 5.00)

Aug 2016 - Apr 2018

- **Relevant Coursework:** Physics, Chemistry, Biology, Higher Math, Information and Communication Technology, English, Bangla

Research Publications

Conference Proceedings

- [1] Ruhul Amin et al. "B-Dropshipper: Interoperable Federal Blockchain Approaches For Real Estate Dropshipping". In: *2023 26th International Conference on Computer and Information Technology (ICCIT)*. IEEE. 2023, pp. 1–6.
- [2] Sudipto Kar et al. "Farmbot: an IoT-Based Wireless Agricultural Robot for Smart Cultivation". In: *2023 26th International Conference on Computer and Information Technology (ICCIT)*. IEEE. 2023, pp. 1–6.

Projects

UnChair-iOS | Swift, SwiftUI | Github Link

Feb 2024 – Current

- Designed an app to promote physical activity and mitigate sedentary lifestyles through reminders and challenges. Followed the **MVVM** architecture to maintain a clean and maintainable codebase.
- Utilized **Swift** for development and **SwiftUI** for creating a dynamic and visually appealing user interface.

Petopia | Java, Kotlin, XML, MySQL, Retrofit, PHP | Github Link

August 2023 – Jan 2024

- Developed an Android app enhancing the pet care experience and fostering a pet-loving community. Followed **MVC** architecture and **OOP** design patterns.
- Utilized **Java** and **Kotlin** for application logic, and **XML** for user interface design to deliver a responsive and user-friendly experience.
- Integrated a **MySQL** database and **REST** API to manage application data, leveraging the **Retrofit** library for network operations. Implemented **PHP** for API development.

SylhetJerseyHouse | Java, Kotlin, XML, MySQL, Room | Github Link

Apr 2022 – August 2023

- Developed an e-commerce mobile application for sports-related products, combining robust design with efficient functionality.
- Implemented the app using **Java** and **Kotlin** for core functionality, and **XML** for layout design.
- Managed product information and user data using a **MySQL** database, integrating with **Room** to support both online and offline data storage.

Technical Skills

Languages: Python, C++, Java, Kotlin, Swift, PHP, LaTeX

Technologies: Android SDK, iOS SDK, Jetpack Compose, XML, SwiftUI, XCode, Firebase, Room, MySQL, Retrofit, Ktor, Coroutine

Concepts: MVVM, MVC, Clean Architecture, Dependency Injection, Asynchronous Programming, RESTful APIs, Online Storage, Offline Storage, Animation, App Lifecycle, User Experience Design, Localization, App Store Deployment, Agile Methodology

Achievements

- **Hackathon Participation**

- **Bitfest**

- Organized by Leading University Computer Club*

- Participated in a competitive environment to develop innovative solutions and enhance programming skills.

- **Intra University Hackathon**

- Organized by Sylhet Engineering College*

- Collaborated on projects to solve real-world problems, fostering teamwork and practical application of technical knowledge.

- **Academic Achievement**

- **Academic Excellence Stipend**

- Received a stipend for excellent academic performance in every semester except the second, highlighting consistent academic excellence and dedication to studies.