# Abdus Samee

Dhaka, Bangladesh

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## **Education**

#### **Bangladesh University of Engineering and Technology**

Dhaka, Bangladesh

April 2019 - July 2024

BSc in Computer Science and Engineering

- CGPA: 3.79
- · Research Interests: Federated Learning, HCI, Software Engineering

## Skills

DSA, Java, Python, C, C++, React, NodeJS, Laravel, HTML, CSS, JavaScript, Typescript, Databases, Tensorflow, MIPS/ARM/Nios, Git, OOP, Sonarqube

## Work Experience \_\_\_\_\_

**Wall Street Docs**Dhaka, Bangladesh

Junior Software Engineer

July 2024 - till date

• Working with the Documents team at London to develop structured products and address tech debt.

S2E Lab Indiana, USA

Visiting Undergraduate Research Assistant

Oct 2022 - Feb 2023

• Assisted in dataset collection, parsing, generating and analyzing results from copilot, etc.

**HackMerced** California, USA

Engineering Team Member Apr 2021 - Jan 2023

Contributed to developing and organizing the HackMerced website, implementing new features, updating existing components, and hackathon
management.

### Research

#### Zero-shot Prompting for Code Complexity Prediction Using GitHub Copilot

Demonstrated how well GitHub copilot predicts the runtime complexities of programs (NLBSE'23)

#### NoTeeline: Supporting Real-Time Notetaking from Keypoints with Large Language Models

Developing a novel note-taking tool that enables micro-note taking and expands notes tailored to an individual's writing style (Under review)

### Hybrid Synchronization Approach with Dynamic Weight Allocation for Secure Federated Learning

Achieve better trade off between accuracy and training time in federated setup with hybrid synchronization and dynamic weight allocation based on modified gradients (Undergraduate Thesis)

## Projects\_\_\_\_\_

**CodeLytic-Frontend** Created a contents' creator-driven educational platform where users can enroll to premium courses, participate in quizzes and track their progress, built on top of React, HTML, JavaScript.

**CrickShotClassify** Designed two separate models based on a combination of CNN and GRU to run on a custom dataset of 11 different cricket shots and 1 bowled-out action, with a validation accuracy of around 70% in Google Colab

**Crunchyroll** Developed a streaming site for animes and mangas, enabling viewers to enjoy free and premium content, engage in discussions, and utilized ReactJS, SQL, and NodeJS for the technical implementation.

**Wonder Hand** Developed a gesture-based system using C++, Arduino Uno/Nano, Bluetooth modules, and hardware circuitry, enabling paralyzed, bedridden, and disabled individuals to control household appliances and trigger emergency alarms through simple palm gestures, promoting accessibility and independence.

**Codeforces Flutter App** Built a mobile app leveraging Flutter, Dart, and Codeforces API, allowing users with valid Codeforces credentials to track their coding performance through detailed analytics on solved problems, verdicts, and rating progression.

**DX Ball** Created an iGraphics-based C++ project inspired by the classic DX-Ball game, featuring custom levels, scoresheet functionality, and introducing innovative gameplay elements during the early stages of my undergraduate studies.

## **Achievements**

2019 **Dean's List**, BUET

2021 Dean's List, BUET

OCTOBER 2, 2024