

# Md Jawad Ul Islam Abir

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## EDUCATION

### University of Dhaka

B.S. in Computer Science

Dhaka, Bangladesh

Expected Graduation, December 2024

- o **Concentrations:** Machine Learning and Data Engineering
- o **Related Coursework:** Data Structures & Algorithms, Database Management, Computer Organization & Programming, Networking, System Design, Combinatorics, Data Science, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications, Cryptography and Cyber Security

## EXPERIENCE

### University of Dhaka

Research Assistant

Dhaka, Bangladesh

Sep 2023-present

- Contributed to the development of an adaptive and fault-tolerant computation offloading framework for vehicular networks, optimizing real-time task allocation to roadside units (RSUs) and edge servers.
- Conducted extensive literature review and comparative analysis of offloading strategies, focusing on machine learning techniques like Deep Q-Networks (DQN) for dynamic decision-making in vehicular environments.
- Assisted in designing system architecture for vehicular networks, integrating edge computing and SDN controllers to ensure efficient resource utilization and minimize latency.

### Amicsoft

Junior Software Engineer

Dhaka, Bangladesh

May 2023 – Sep 2024

- Collaborated with senior developers in the design and development of cross-platform mobile and web applications using Flutter, React, and Firebase.
- Developed high-fidelity prototypes and wireframes for both mobile and web applications using Figma, ensuring alignment with user experience best practices.
- Implemented robust state management solutions in Flutter using Bloc, Riverpod, Getx, and Provider, and in React using Redux for efficient data flow and scalability.
- Integrated Firebase services for real-time databases, authentication, and cloud functions, optimizing backend functionality and improving overall application performance.

### Academic Affiliation

UI/UX Designer

Dhaka, Bangladesh

Dec 2021 – Aug 2023

- Designed high-fidelity prototypes and wireframes for mobile and web applications, delivering user-centered solutions for clients in diverse industries using Figma and Axure RP.
- Conducted user research and usability testing to improve product interfaces, utilized key HCI principles such as user-centered design, cognitive load theory, and Fitts's Law, enhancing user experience by refining interaction flows and visual elements based on feedback.
- Collaborated with cross-functional teams to create responsive and intuitive designs, ensuring alignment with brand guidelines and optimizing for both mobile and web platforms.

## PROJECTS

### Taskmaster

Team Member

Dhaka, Bangladesh

Jun 2023 – Dec 2023

- Developed a fully functional web application that will streamline task management.
- Tech stack: React js, Tailwind CSS, HTML, Spring Boot

### Flixtix

Team Lead

Dhaka, Bangladesh

Nov 2023 – April 2024

- Developed an **android application** that helps showcasing watched as well as different categorized movies and series.
- Tech stack: Flutter, Firebase

### E-commerce Prototype

Team Lead

Dhaka, Bangladesh

May 2024 – Sep 2024

- Developed a high fidelity prototype e-commerce app utilizing key HCI principles such as user-centered design, cognitive load theory, and Fitts's Law.

- Implemented core e-commerce features, including user onboarding, login system, product catalog, product details, and cart/checkout flow.
- Utilized key HCI principles such as user-centered design, cognitive load theory, and Fitts's Law.

## **CERTIFICATIONS**

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Programming for Everybody (Getting Started with Python)

**Coursera, May 2021 - Jun 2021**

Python Data Structures

**Coursera, April 2021 - Jun 2021**

Intro to Machine Learning

**Kaggle, May 2024 - Jun 2024**

Postman API Fundamentals Student Expert

**Postman, July 2024 - Aug 2024**

## **SKILLS**

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**Programming Language:** Java, Python, Javascript, C, C++, Dart

**Libraries:** PyTorch, Tensorflow, Keras, Numpy, Pandas, Matplotlib, Seaborn, Tailwind CSS, OpenCV

**Tools and Technologies:** PyCharm, Jupyter Notebooks, Postman, Git, Spring Boot, Flutter, React.js, Flutter, FastAPI