Md Jawad Ul Islam Abir

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EDUCATION

University of Dhaka **Dhaka, Bangladesh**
B.S. in Computer Science *Jan 2019 - Present*
- o **Concentrations:** Software Development
- 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

G2i Inc. **Dhaka, Bangladesh**
Software Developer For Training AI Data *Oct 2024 – present*
- Conduct in-depth comparative analysis of AI model outputs, evaluating key factors such as truthfulness, harmfulness, context-awareness, and executable feasibility to ensure high-quality responses.
- Refactor and optimize code across multiple languages, including Python, Swift, JavaScript, and C/C++, to improve functionality, performance, and code correctness.
- Review and assess technical tasks, providing constructive feedback on peer submissions and ensuring adherence to best coding practices.
- Design complex prompts aimed at identifying model vulnerabilities, followed by corrective feedback and code improvements to enhance model reliability.

University of Dhaka **Dhaka, Bangladesh**
Research Assistant *Sep 2023 - Dec 2024*
- 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 **Dhaka, Bangladesh**
Full Stack Developer *May 2023 – April 2024*
- Collaborated with senior developers in the design and development of cross-platform mobile and web applications using Flutter, React, Java, 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 **Dhaka, Bangladesh**
UI/UX Designer *Nov 2021 – April 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

Portfolio **Dhaka, Bangladesh**

Team Member   *Jun 2023 – Dec 2023*
- A portfolio website of myself where I have shown my works and my contact details.
- Architected a modern, responsive portfolio website utilizing Next.js 13 with App Router, React 18, and Tailwind CSS, implementing server-side rendering (SSR) and static site generation (SSG).
- Engineered dynamic, interactive user interfaces with Framer Motion, incorporating advanced animations, transitions.
- Implemented a robust backend infrastructure using Node.js for RESTful API services, integrating MongoDB for efficient data storage and retrieval.
- Tech stack: Next.js, React.js, CSS, Node.js, MongoDB

Taskmaster   **Dhaka, Bangladesh**
Team Member   *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   **Dhaka, Bangladesh**
Team Lead   *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   **Dhaka, Bangladesh**
Team Lead   *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.

ACHIEVEMENTS

Code Samurai Inter-University Hackathon 2024   **Dhaka, Bangladesh**
- Advanced past the preliminary round, demonstrating strong problem-solving and teamwork skills.
- Ranked among the top 50 teams nationwide, competing against leading talent in a high-stakes coding challenge.

CERTIFICATIONS

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

Programming Language: Java, Python, Javascript, C, C++, Dart
Libraries: PyTorch, Tensorflow, Keras, Numpy, Pandas, Matplotlib, Seaborn, Tailwind CSS**,** OpenCV, Selenium
Tools and Technologies: PyCharm, Jupyter Notebooks, Postman, Git, SQL, Spring Boot, Flutter, Flutter, FastAPI, React.js, Node.js, Next.js, Docker, AWS