Md Jawad Ul Islam Abir

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EDUCATION

University of Dhaka   Dhaka, Bangladesh
B.S. in Computer Science   Jan 2019 - Dec 2024

- Concentrations: Software Development
- 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

Panjeree Publications Ltd   Dhaka, Bangladesh
Software Engineer - EdTech   July 2025 – Present

- Contributing to the development of a scalable EdTech platform
- Building robust backend APIs using Java Spring Boot, ensuring efficient data flow and secure authentication.
- Designing interactive and responsive frontend interfaces with HTML, CSS, and Next.js.
- Applying modern development practices including RESTful APIs, component-based design, and deployment readiness.

G2i Inc.   Remote
Software Developer For Training AI Data   Oct 2024 – February 2025

- 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.

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.

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.

Academic Affiliation   Dhaka, Bangladesh
Junior Frontend Developer   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.
- Developed fully functional web applications with Next.js, Tailwind CSS, HTML.

PROJECTS

Portfolio   Dhaka, Bangladesh
Team Member   Jun 2024 – Dec 2024

- 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

Ocasio: Event management website   Dhaka, Bangladesh
Client project   Jan 2025 - March 2025

- Developed a full-stack event management system using Spring Boot for backend API (JPA/Hibernate, Spring Security with JWT), MySQL database, and Next.js for responsive frontend, complete with pagination and data filtering capabilities.
- Implemented comprehensive business logic for event creation, user registration, and attendance tracking with RESTful API endpoints.
- Designed secure authentication system using JWT tokens with Role-Based Access Control (RBAC), including password encryption, stateless authentication, and protected routes.
- Engineered database structure with optimized entity relationships, deployed backend on AWS EC2 and frontend on Vercel, with CI/CD pipeline integration for automated testing and deployment.
- Tech Stack: Spring Boot, Next.js, MySQL, REST API, AWS, Vercel

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

Claude Coder: VS Code Extension for AI-Powered Coding Assistance
Solo Project   Jan 2025 - Feb 2025
- Developed a VS Code extension integrating Claude 3.7 Sonnet AI, providing contextual code assistance through a dedicated chat interface
- Implemented full workspace analysis capabilities to generate context-aware code suggestions and solutions
- Built a responsive WebView UI with custom syntax highlighting, markdown rendering, and code snippet management

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 20 teams nationwide, competing against leading talent in a high-stakes coding challenge.

Problem Solving
- Solved 100+ problems in Leetcode
- Solved 100+ problems in codeforces with a rating of about 1200

Half Marathon Finisher   Dhaka Metro Half Marathon 2025
- Completed a 21.1 km race and received a medal and a certificate of completion.
- Showcased endurance, discipline, and commitment to personal goals.

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, Kotlin, 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, Jetpack compose, React.js, FastAPI, Node.js, Next.js