

MD. FARHAN ISHTIYAK

COMPETITIVE PROGRAMMER • ASPIRING SOFTWARE ENGINEER

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Professional Summary

Aspiring Software Engineer with proven competitive programming expertise and comprehensive foundation in core Computer Science fundamentals including Data Structures & Algorithms, Object-Oriented Programming, and database management systems. Distinguished track record in national-level programming competitions (ICPC, NCPC, IUPC, IEEE Xtreme) with 1,500+ algorithmic problems solved across Codeforces, CodeChef, and LeetCode platforms. Proficient in modern software engineering practices utilizing PHP, MySQL, MERN stack, and Python technologies, with active research engagement in Go programming and machine learning applications.

Education

Jagannath University, Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering

January 2020 – August 2025

- CGPA: 3.63/4.00
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating System, Database Management, Software Engineering, Computer Networks

Technical Skills

Programming Languages: C, C++ (Proficient), JavaScript, Python, PHP (Intermediate), Go, Java (Basic)

Frontend Technologies: HTML5, CSS3, Tailwind CSS, JavaScript, React.js (Learning)

Backend Technologies: PHP, Node.js, Express.js (Learning), RESTful APIs

Databases: MySQL, MongoDB, Database Design

Development Tools: VS Code, Sublime Text, Postman, Docker (Basic)

Version Control: Git, GitHub (Intermediate)

Operating Systems: Windows, Linux

Core CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, System Design, Database Management, Machine Learning (Basic)

Academic Thesis

PSR-DRL: Power Saving Routing in Wireless Sensor Network Using Deep Reinforcement Learning | DRL, WSN, Python

🐙 GitHub | 2025

- Developed a Deep Reinforcement Learning (DRL)-based power-saving routing protocol (PSR-DRL) for Wireless Sensor Networks
- Implemented intelligent routing to balance energy consumption and extend network lifetime
- Achieved up to 84.2% improvement in first node death time and 28.2% in total lifetime over existing protocols
- Demonstrated superior scalability and efficiency in WSN energy management through advanced ML techniques

Academic Major Projects

Charity Platform | PHP, MySQL, Bootstrap, PHPMailer

🐙 GitHub | 2023

- Built a full-stack charity donation platform connecting donors with charitable organizations
- Implemented user authentication with PHPMailer verification, donation history tracking
- Features category-based giving options and comprehensive admin dashboard for enhanced transparency

Chat Application | MERN, Socket.IO, JWT, Docker

 [GitHub](#) | [Live](#) | 2025

- Built a real-time chat app using MERN stack with Socket.IO for instant messaging and live user status tracking
- Features secure JWT authentication, bcrypt password hashing, responsive UI with React/Tailwind CSS
- Implemented Zustand state management and containerized application using Docker for seamless deployment

Obstacle Avoiding Remote Controlled Vehicle | Arduino, Bluetooth, Sensors

 [GitHub](#) | 2024

- Designed and built an autonomous obstacle-avoiding RC car with Bluetooth control
- Integrated ultrasonic sensors, servo motors, and wireless modules for real-time obstacle detection
- Implemented path planning algorithms and automated navigation system

Digital Image Enhancer | Python, OpenCV, Image Processing







 [GitHub](#) | 2024

- Developed comprehensive Python-based digital image enhancement system with HDR processing
- Features local contrast enhancement, multi-exposure blending, and medical imaging techniques
- Supports various photometric algorithms and real-time image optimization






Contest Participation

• ICPC Dhaka Regional Onsite 2024 - TrioOfUttoranchal_JnU	Rank: 190/307
• IEEEExtreme 18.0 2024 - JnUxDefenders	Rank: 5th (Country) 610th (Global)
• UIU IUPC 2025 - TrioOfUttoranchal_JnU	Rank: 65/160
• AUST IUPC 2025 - TrioOfUttoranchal_JnU	Rank: 72/130
• DUET IUPC 2025 - TrioOfUttoranchal_JnU	Rank: 87/131
• NCPC Onsite 2023 - JnU_Bitflips	Rank: 170/196
• ICPC Preliminary 2023 - JnU_XOR	Rank: 388/2479

Coding Profiles

• Codeforces: Max. Specialist (1402) Solved 1020+ problems	 Profile
• Codechef: 3 Highest Rating: 1677	 Profile
• Leetcode: Contest Rating: 1493 Solved 100+ Problems	 Profile
• CSES: Solved 70+ Problems	 Profile
• HackerRank: Hackos: 1559	 Profile
• GeekforGeeks: Solved 50+ Problems	 Profile

Certifications & Training

• ICPC Asia Dhaka Regional 2024 - Programming Contest Participation Certificate	 View Certificate
• IEEE Xtreme 18.0 Programming Contest - Global Programming Competition	 View Certificate
• Problem Solving (Basic) - HackerRank Certification	 View Certificate
• SQL and Relational Databases - IBM Cognitive Class	 View Certificate
• IP Addressing & Subnetting - Udemy Course Completion	 View Certificate