

# Nishat Mahmud

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## PROFESSIONAL SUMMARY

Results-driven software engineer and entrepreneur with experience in web, mobile, and AI/ML development. Co-founded Go Bangladesh, a government-funded ticketing startup, leading frontend development, UX design, and platform strategy. Skilled in Python, JavaScript, Next.js, Node.js, Flask, and React Native. Experienced in building scalable applications, integrating APIs, and delivering innovative solutions in both academic and real-world projects. Key skills: Python, JavaScript, Next.js, React Native, Node.js, Flask, TensorFlow, PyTorch, REST APIs, Docker, PostgreSQL, Git.

## EDUCATION

<b>Jagannath University</b> <i>Master of Science in Computer Science and Engineering</i>	Dhaka, Bangladesh <i>Oct 2025 – Present</i>
• Ongoing Master's program with focus on advanced topics in Computer Science and Engineering	
<b>Jagannath University</b> <i>Bachelor of Science in Computer Science and Engineering</i>	Dhaka, Bangladesh <i>Jan 2020 – Sep 2025</i>
• CGPA: 3.56/4.0	
• Major coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Web Development, Android Development, Artificial Intelligence, Machine Learning	
• Technical foundation: C, C++, Java, Python, SQL, TensorFlow, PyTorch, NumPy, Pandas	
<b>Govt. Ananda Mohon College</b> <i>Higher Secondary Certificate (HSC)</i>	Mymensingh, Bangladesh <i>Jun 2017 – Jul 2019</i>
• GPA: 5.00/5.00, Science Group	
• Participated in Regional Botany Olympiad	
<b>Mymensingh Zilla School</b> <i>Secondary School Certificate (SSC)</i>	Mymensingh, Bangladesh <i>Jan 2009 – Apr 2017</i>
• GPA: 5.00/5.00, Science Group	
• Participated in Regional Mathematical and Physics Olympiads	
• Won several internal school events	

## EXPERIENCE

<b>Co-founder and Front-end Developer</b> <i>Go Bangladesh</i>	Sep 2021 – Present <i>Dhaka, Bangladesh</i>
• Co-founded the portfolio startup of Innovation Design and Entrepreneurship Academy (iDEA) Project of Bangladesh Computer Council under the ICT Division	
• Participated in and won national project showcasing competitions	
• Developed documentation and presentations for government funding acquisition	
• Led Version 2 frontend development of pioneering card-tap ticketing platform	
• Designed frontend operational dashboard and landing page; created marketing materials and UI/UX designs	
• Provided strategic input for platform enhancement in government-funded ecosystem	
• Contributed to a platform serving different organizations and thousands of daily passengers nationwide	
• <b>Technologies:</b> Next.js, TypeScript, Node.js, Tailwind CSS, REST APIs, Git	
<b>Tech Content Creator</b> <i>Wikitricks (YouTube Channel)</i>	2018 – Present <i>Online</i>
• Create troubleshooting videos for common Windows problems and technical issues faced in daily computing	
• Share practical solutions for software glitches, system optimization, and productivity tools	
• Build community of tech enthusiasts seeking real-world problem-solving content	
• <b>Content Tools:</b> Adobe Premiere Pro, Adobe Photoshop, Adobe Illustrator	

## PROJECTS

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<b>Go Bangladesh Ticketing Platform</b>   <a href="#">Link</a>	Sep 2021 – Present
<ul style="list-style-type: none"><li>Developed main landing page with integrated user login and registration system</li><li>Designed clean, user-friendly interface with improved UX for better user engagement</li><li>Built comprehensive admin dashboard for full system management and operations</li><li><b>Technologies:</b> Next.js 16, TypeScript, Node.js, Tailwind CSS, REST APIs, Git</li></ul>	
<b>My Teletalk: Unofficial Web Client for Teletalk Bangladesh Ltd.</b>   <a href="#">Link</a>	Dec 2025 – Dec 2025
<ul style="list-style-type: none"><li>Built full-featured web client with secure authentication, profile management, and real-time balance tracking</li><li>Implemented RSA-OAEP encryption for sensitive data and Cloudflare Turnstile for bot protection</li><li>Developed 18+ proxy API endpoints with session management for login, registration, and balance transfer</li><li>Created Gen Z subscriber section with exclusive offers and responsive dashboard with lazy loading</li><li><b>Technologies:</b> Next.js 16, React 19, TypeScript, Tailwind CSS, Node-Forge, Cloudflare Turnstile</li></ul>	
<b>Bangladesh Railway Real-Time Seat Information System</b>   <a href="#">Link</a>	Jun 2024 – Present
<ul style="list-style-type: none"><li>Built a full suite of web and mobile apps for Bangladesh Railway seat and fare data</li><li>Integrated real-time API to show seat availability and seat count matrix</li><li>Open source project served 2000+ users daily for free and handled 8000+ API requests per day.</li><li><b>Technologies:</b> Python (Flask), JavaScript, React Native, REST API, PDFKit, EventStream</li></ul>	
<b>Traffic Sign Recognition using Convolutional Neural Networks</b>   <a href="#">Link</a>	Sep 2024 – Nov 2024
<ul style="list-style-type: none"><li>Built a CNN model to classify 43 traffic sign classes using GTSRB dataset with preprocessing and augmentation</li><li>Created live-testing scripts for webcam-based sign classification</li><li>Developed web and Android applications for real-time model deployment</li><li><b>Technologies:</b> Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib, Scikit-learn; Flask for web app, Java Jetpack Compose for Android</li></ul>	
<b>e-Desk: Complaint Management System</b>   <a href="#">Link</a>	Sep 2022 – Aug 2023
<ul style="list-style-type: none"><li>Designed complete prototype and UI flow using Adobe XD</li><li>Developed full frontend interface for complaint and request management system</li><li>Focused on user-friendly layouts, responsive design, and smooth navigation</li><li><b>Technologies:</b> Adobe XD, HTML, CSS, JavaScript, Bootstrap</li></ul>	

## AWARDS

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- Champion, UGC Innovation Showcasing 2024, Feb 2024
- 1st Runner-Up, National Conference on Robotics & IoT, JSTU (Robot and Project Exhibition), Nov 2023
- Champion, MBSTU Robo Tech Olympiad 2023 (Project Showcase, Senior), Feb 2023
- Champion, MBSTU Robo Tech Olympiad 2023 (Idea Presentation), Feb 2023
- 1st Runner-Up, Jagannath University IT Society (Apps Showcasing Competition), Nov 2022
- 1st Runner-Up, NACTAR Robotics Olympiad 2022 (Project Showcase, Senior), Aug 2022
- 1st Runner-Up, RUET CSE FEST 2K22 (Project Showcasing, Software), Jun 2022
- 2nd Runner-Up, RUET CSE FEST 2K22 (Idea Contest), Jun 2022
- 10 Lac BDT Fund, Innovation Design and Entrepreneurship Academy (iDEA), Feb 2022
- Top 30, Mujib 100 Idea Contest, Dec 2021

## PARTICIPATIONS

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- MIST Innovation Club Presents INVENTIOUS 4.1 (Project Showcasing), Mar 2025
- IUBAT TechnoCrats V2 (Dhaka Divisional Hackathon 2024), Dec 2024
- Nasa Space App Challenge 2024 (Dhaka Regional), Oct 2024
- ICPC Asia Dhaka Regional Site Online Preliminary Contests (2020-21, 2021-22, 2023-24, 2024-25)
- Jagannath University Intra University Programming Contest (2023, 2024)
- Wadhwani Foundation (21st Century Employability Skilling Program - Advanced), Feb 2024
- CEFALO ITVerse 2023, Institute of Information Technology (IIT), University of Dhaka, Nov 2023

## TECHNICAL SKILLS

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**Programming Languages:** Python, JavaScript, Java, C++, SQL, HTML/CSS, TypeScript

**Frameworks & Libraries:** Next.js, Node.js, Flask, TensorFlow, PyTorch, NumPy, Pandas

**Databases:** PostgreSQL, MySQL, Firebase

**Tools & Technologies:** Git, Docker, Linux, REST APIs

**Software Skills:** Microsoft Office (Excel, PowerPoint), Adobe Suite (Photoshop, Illustrator, Premiere Pro, Acrobat)

**Methodologies:** Agile/Scrum, CI/CD, Test-Driven Development, Object-Oriented Programming

## VOLUNTEERING

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### General Member

*IEEE Computer Society*

Mar 2025 – Dec 2025

*Dhaka, Bangladesh*

- Served as ambassador for the 4th International Congress on Recent Trends in Computer Science (ICRCS-2025)
- Handled content management and event promotion for the congress
- Participated in the international congress on computer science trends

## RESEARCH

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### A Seamless and Contactless Ticketing System using Ultra-Wideband (UWB) and Integrated Localization for Public Transport

Feb 2025 – Sep 2025

*Department of Computer Science and Engineering, Jagannath University*

*Dhaka, Bangladesh*

- Proposed UWB-based framework for seamless, contactless ticketing with integrated passenger localization
- Designed high-precision two-zone detection architecture and secure transaction protocols
- Validated through MATLAB simulation, achieving superior performance over NFC, RFID, and QR code solutions

## REFERENCES

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*References will be provided upon request*