Md. Nawshin Navin

Data Analyst | Developer | Researcher

58/19-A North Mugda, Dhaka-1214 | +8801975025141 | navinmdnawshin@gmail.com
linkedin.com/in/md-nawshin-navin | github.com/navinxqz | Portfolio

SUMMARY

Computer Science undergraduate with proven experience building end-to-end projects using Python, Java, and C#. Adept at applying machine learning, statistical modeling, and data visualization to solve real-world problems while demonstrating strong leadership across research and collaborative teams. Seeking to leverage this multi-language technical expertise and deep problem-solving ability in an impactful software development or data science role.

EDUCATION

Bachelor of Science in Computer Science & Engineering *Jan 2023 – Ongoing*
American International University-Bangladesh, Dhaka, Bangladesh | *GPA: 3.73/4.00*

Higher Secondary Certificate (Science) *Jun 2019 – Jun 2021*
Notre Dame College, Dhaka, Bangladesh | *GPA: 5.00/5.00*

TECHNICAL SKILLS

Languages: C#, C++, C, Java, Python, R, SQL

Frameworks: ASP.NET, PyTorch, TensorFlow

Web & Backend: HTML, CSS, JavaScript, Node.js, PHP

Databases: PostgreSQL, MySQL, Oracle, MongoDB

Software: Visual Studio, VS Code, R Studio, AutoCAD

Tools: Git, GitHub, Overleaf, Figma, MS Office, Power BI, Postman, XAMPP

Soft Skills: Leadership, Problem-Solver, Teamwork, Project Management, Adaptability

PROJECTS

MEDI-LINK-TUI *Mar 2026 – May 2026*
Technologies: Python, C++, Arduino, OpenCV GitHub Repository

- Developed a real-time medication safety system with tangible interface.
- Implemented Python-based detection pipeline with C++ firmware for embedded hardware control.
- Built a Telegram chatbot that sends automated alerts upon each scan, notifying whether a medication pair is dangerous or expired.

Video Game Sales Analysis & Prediction *Dec 2025 – Jan 2026*
Technologies: R (caret, ggplot2, dplyr, rpart, cluster) GitHub Repository

- Analyzed 16,000+ video game records from Kaggle, combining VGChartz sales and Metacritic ratings.
- Built three end-to-end machine learning models: Decision Tree (ESRB rating classification), K-Means (game market segmentation), and Linear Regression (global sales prediction).
- Performed exploratory data analysis (bar charts, boxplots, heatmaps, scatter plots).

War Effect – 2D War Simulation *May 2025 – Jul 2025*
Technologies: C++, OpenGL, GLUT, irrKlang GitHub Repository

- Developed interactive graphics application rendering 2D sprites with texture mapping and alpha blending.
- Integrated irrKlang audio engine for synchronized sound effects (explosions, gunfire, weather ambience).
- Implemented multi-scene environment with dynamic weather effects (rain, thunder, camera shake).

Game Hub Management System *Sep 2024 – Nov 2024*
Technologies: C#, .NET 8, Windows Forms, SQL Server, Krypton Toolkit GitHub Repository

- Designed and developed a Windows Forms-based digital game distribution system using OOP principles.
- Built an Admin Dashboard enabling full CRUD operations for games, users, and categories.
- Integrated SQL Server for database management and real-time notification system for updates.

AIUB Gym Management System *Jul 2023 – Aug 2023*
Technologies: Java, Java Swing, JDBC, SQL GitHub Repository

- Developed a Java-based GUI application for gym membership management with user authentication.
- Implemented subscription management and personalized workout plan modules.
- Designed Admin Panel for user and database management.

WORK EXPERIENCE

Intern Developer *Ongoing*
Itransition, Dhaka, Bangladesh
Data Science Intern *May 2026 – Jun 2026*
CodeAlpha, Remote
Joint Secretary, Creative Department *Jun 2020 – May 2021*
Notre Dame Art Club, Dhaka, Bangladesh

PUBLICATIONS

The Perceptual Distraction Budget: A Unified Attentional Framework for Gaze, Motion Redirection in Social VR
[Ongoing]
- *Supervisor(s)*: Dr. Muhammad Firoz Mridha [Professor and Head, Dept. of CS]

M2C-Net: A Lightweight Attention-Based Framework for Non-Invasive Eye Disease Classification from Scleral Images
IEEE 2nd International Conference on Quantum Photonics, AI, and Networking (QPAIN) *Apr 2026*
[Ongoing]
- Designed hybrid MobileNetV2-CBAM model for scleral image-based disease classification.
- Achieved 96.55% accuracy with 2.83M parameters, optimized for mobile deployment.
- *Supervisor(s)*: Dr. Kamruddin Md. Nur

Accurate Anemia Disease Detection Using Eye Conjunctiva Features with Improved YOLOv9
Institute of Electrical and Electronics Engineers (IEEE) *Jan 2026*
[Read]
- Developed a real-time anemia detection system using conjunctiva eye images.
- Trained and optimized YOLOv9-based object detection model.
- *Supervisor(s)*: Shahnaj Parvin, Dr. Kamruddin Md. Nur

Bilingual Sign Language Recognition: A YOLOv11-Based Model for Bangla and English Alphabets
Journal of Imaging *Apr 2025*
[Read]
- Developed bilingual real-time sign language recognition system.
- Implemented YOLOv11-based deep learning model for multi-language alphabet detection.
- *Supervisor(s)*: Dr. Fahmid Al Farid, Shakila Rahman, Hezerul Abdul Karim

AWARDS

Dean's List Honors
- I was awarded the Dean's List Honors award in two academic semesters of my undergraduate studies

CERTIFICATIONS

Certificate of Presentation, Dhaka Medical College Research and Academic Club *Aug 2025*
Certificate of Presentation, IEEE Thailand Section *Oct 2025*
Complete C# Course – Beginner to Expert (Udemy) *May 2024*
Letter of Merit in IT Essentials (Cisco Networking Academy) *May 2023*
2nd place in Virtual Art Venture, Notre Dame Art Club *Nov 2020*