



# Joy Biswas

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👤 JoyBiswas 🔗 https://joybiswas.engineer

## 📄 SUMMARY

Motivated Computer Science and Engineering graduate with a strong foundation in software development, algorithms, and problem-solving. Passionate about learning new technologies, building high-quality software, and collaborating in team environments. Eager to contribute, grow, and build a long-term career as a Software Engineer.

## 🛠 EXPERIENCE

- |                        |                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| July 2026 – Present    | <b>AI Engineer Trainee, BJIT Limited</b><br>Developing AI and Python-based solutions while learning modern software development practices. Collaborating with team members, using AI-assisted development tools, and improving problem-solving and software engineering skills. |
| March 2026 – July 2026 | <b>IT Intern, BJIT Limited</b><br>Provided technical support, resolved hardware and software issues, managed IT service tickets, assisted with system administration, and supported network configuration and IT security tasks.                                                |

## 🧩 TECHNICAL SKILLS

### Artificial Intelligence, Machine Learning & Generative AI:

Machine Learning (Supervised & Unsupervised), Deep Learning (CNN, ANN), Model Evaluation, Feature Engineering, Data Preprocessing, Explainable AI (Grad-CAM, Ablation-CAM), LLMs, Prompt Engineering, OpenAI and Hugging Face APIs

**Frameworks & Tools:** TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook, Kaggle, Colab

### IT & Network Skills:

TCP/IP, OSI Model, DNS, DHCP, LAN/WAN, Router & Switch (Basic), Network Security, Troubleshooting, Wireless Networking, IT Support, Help Desk, Remote Tools, Hardware & Software, Cisco Packet Tracer, Wireshark

### Software Engineering & QA Skills:

STLC (Software Testing Life Cycle), SDLC (Software Development Life Cycle), Agile Methodology, Requirement Analysis, Test Planning, Test Case Design

### Programming Knowledge:

C, C++, Python, HTML, CSS, PHP, JavaScript

### Programming Software:

VsCode, Codeblocks, Dev C++, Pycharm

### Database Knowledge:

SQL, MySQL, MongoDB

## 🎓 EDUCATION

- |                                                |                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 2021 – 2025<br>Dhaka, Bangladesh               | <b>B.Sc in Computer Science and Engineering</b><br>East West University<br>Major in Data Science   CGPA 3.19 |
| 2017 – 2019<br>Haziganj, Chandpur              | <b>Higher Secondary Certificate(HSC)</b><br>Hajigonj Model Govt College<br>Group: Science   GPA: 4.00        |
| 2015 – 2017<br>Camperhat, Raipur,<br>Lakhimpur | <b>Secondary School Certificate(SSC)</b><br>Chair Ababil S . C High School<br>Group: Science   GPA: 4.55     |

## PROJECTS

### **EZConnect: Connecting EWU Students with Campus Knowledge**

Our project helps EWU students easily find faculty info, office hours, TAs, and event details through a user-friendly website. It also features an interactive campus map for better navigation and enhances the overall student experience.

**Tools and Languages:** HTML, CSS, JavaScript, PHP, MySQL

### **EWU Faculty Scheduling System**

This real-life university-related project gave us a valuable experience. We divided the tasks well, which boosted teamwork. Though implementing triggers was tricky, we managed it. We even worked 12 hours straight to fill the gaps. Overall, it's been our best project so far.

**Tools and Language:** Oracle APEX, SQL

### **Photo-Based Complaint Registration for EWU Campus Issues**

The EWU Complaint Portal is a web app that lets students, faculty, and staff submit and track photo-based complaints about campus issues. It streamlines reporting, ensures faster resolution, and improves communication across the university.

**Tools and Languages:** HTML, CSS, JavaScript, PHP, MySQL

### **Tic Tac Toe Game**

This game can be played 'Human' vs 'Human' and 'Human' vs 'Computer'. However, we developed the game 'Human' vs 'Human' and 'Human' vs 'Computer'.

**Tools and Language:** Codeblocks, C

### **Smart Home Automation System**

Developed a smart home automation system designed to automate and remotely control household operations. The system integrates IoT-enabled devices, sensors, and controllers to enhance convenience, energy efficiency, and security. communication and automation workflows.

**Tools & Technologies:** IoT Devices, Smart Sensors, Automation Software, Network Architecture Design.

## CERTIFICATES

- Certified Generative AI Professional, **Oracle**
- Certified DevOps Professional, **Oracle**
- Certified Networking Professional, **Oracle**
- Certified Cloud Database Services Professional, **Oracle**
- Certificate of Participation Flag Hunt 2022, **CTF BD**
- MikroTik Certified Security Engineer, **MikroTik**
- MikroTik Certified Network Associate, **MikroTik**
- National Cyber Drill 2021 for University Students (Team Rank 6), **BGD e-GOVCI RT**

## EXTRA CURRICULUM ACTIVITIES

### **Club Activities**

**Founder and President**, East West University Cyber Security Club.

- Established the university's first Cyber Security Club to promote awareness, learning, and skillbuilding in cybersecurity. Organized workshops, seminars, CTF events, and collaborated with industry experts to enhance student engagement and practical knowledge.

**Activities:** 5 seminars, 3 workshops, 1 training program and 2 CTF competition

**Executive Panel:** 2024-2025

## PUBLICATIONS

### **Journal and Conference:**

- **"Framework for Fish Freshness Detection and Rotten Fish Removal in Bangladesh Using Mask R-CNN Method with Robotic Arm and Fisheye Analysis"** — *Journal of Agriculture and Food Research*, 2024.  
<https://doi.org/10.1016/j.jafr.2024.101139> 
- **"Automatic Detection of Pumpkin Leaf Diseases Using Transfer Learning and a Custom Dataset from Bangladesh"** — 2024 IEEE International Conference on Computing, Applications and Systems (COMPAS), 2024
- **"Explainable Lightweight Deep-Learning Framework for Field-Based Java Apple Leaf-Disease Classification Using a Custom Dataset from Bangladesh"** — 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), IEEE, 2025
- **"Pumpkin Leaf Disease Classification: A Comparative Study of SimCLR and Traditional Supervised Learning Approaches"** — 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), IEEE, 2025