

Tanjil Rahman Opu

Gazipur, Bangladesh

☎ 01776773154 • ✉ oputanjil3@gmail.com

🌐 linkedin.com/in/tanjil-opu



PROFILE SUMMARY

Detail-oriented SQA Engineer with expertise in software testing, test automation, and QA process optimization. Skilled in designing test plans, writing test cases, performing regression API testing, and implementing CI/CD-integrated test automation frameworks. Combines a strong background in Computer Science, AI, and Web Systems to ensure product reliability, performance, and scalability. Focused on improving software quality through data-driven testing and continuous improvement.

SKILL HIGHLIGHTS

Programming: Python, Java, C++, C, SQL

Testing: Manual Testing, Regression, Smoke, Functional, API Testing

Tools: JIRA, Postman, Selenium WebDriver, TestLink

Documentation: Test Plan, Test Case, Bug Report, RTM

Soft Skills: Analytical Thinking, Communication, Team Collaboration

Core Skills: Test Case Design, Regression Testing, API Testing, Automation Frameworks, SDLC/STLC, Bug Reporting, Requirement Analysis, QA Documentation

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science and Engineering 2022–Present

Green University of Bangladesh, Dhaka

CGPA: 3.35 / 4.00 (up to 4th year)

Thesis: “Hybrid Multi-Modal Deep Learning Model for Early Colorectal Cancer Detection.”

Supervisor: Assistant Professor Md. Solaiman Mia — AI & Computer Vision Lab

Higher Secondary Certificate (HSC) — Science 2019

Safiuddin Sarkar Academy and College, Gazipur

GPA: 4.08 / 5.00

Secondary School Certificate (SSC) — Science 2017

Rani Bilasmoni Govt. Boys’ High School, Gazipur

GPA: 5.00 / 5.00

RESEARCH EXPERIENCE

Undergraduate Researcher — AI & Computer Vision Lab 2024–Present

Green University of Bangladesh

- Developing a **hybrid CNN-based model** for early colorectal cancer detection using colonoscopy images.
- Integrating **EfficientNet** and **ResNet** with **CBAM attention** for enhanced feature representation.
- Utilizing **Grad-CAM++** for model interpretability; preparing for publication in **IEEE Access**.

PROFESSIONAL EXPERIENCE

QA Engineer (Intern) — QA Harbor, Dhaka 2025–Present

- Designed and executed test plans, test cases, and regression test suites for web applications.
- Collaborated with developers to identify and resolve functional and performance defects
- Managed bug tracking and reporting through Jira and prepared detailed QA documentation.

LEADERSHIP EXPERIENCE

Project Team Lead — IDP I & IDP II, Thesis Team Lead 2024–2025

Directed research, development, and QA phases for multidisciplinary projects, ensuring test-driven implementation and timely delivery under faculty supervision.

HONORS & AWARDS

- Received the **Dean’s Award** twice from Green University of Bangladesh
- **School Cricket RunnersUp** — Rani Bilasmoni Govt. Boys’ High School, Gazipur (2015)
- **Best Science Project Award** — Kaliakair College, Gazipur (2019)
- **Math Olympiad Champion** — Rani Bilasmoni Govt. Boys’ High School, Gazipur (2016)

PROJECT HIGHLIGHTS

1. E-commerce QA Case Study (Manual + API Testing)

Wrote 120+ detailed test cases covering checkout flow, payment gateway, and REST API validation; performed API verification using Postman and efficiently logged and tracked bugs via Jira to ensure end-to-end system reliability and smooth user experience.

2. CNN-Based Colon Cancer Detection System

Implemented and fine-tuned **ResNet** and **EfficientNet** CNN architectures for colonoscopy image classification. Applied **Grad-CAM** for diagnostic explainability.

CERTIFICATIONS & AFFILIATIONS

- **Full-Stack SQA Certificate** — Road To SDET, 2025
- **SQA Career Launchpad Workshop Certificate** — Ostad, 2025

PUBLICATIONS

- Md. Rajuan Hossen, Tanjil Opu, Md. Solaiman Mia, and Tanpia Tasnim (2025). "A CNN-Based Framework for Early Detection of Colon Cancer Using Colonoscopy Images." Under review, **IEEE Access**.

REFERENCES

Md. Solaiman Mia

Assistant Professor, Department of Computer Science and Engineering
Green University of Bangladesh
solaiman.mia@gub.edu.bd