

# Arifin Mahmud

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## EDUCATION

**BSc | Computer Science & Engineering (CSE)**, Chittagong University of Engineering & Technology (CUET)

Chittagong, Bangladesh

## PROFESSIONAL EXPERIENCE

**Dream71 Bangladesh Ltd**, Software Quality Assurance Engineer Intern

05/2025 – Present

Dhaka, Bangladesh

- Gained hands-on experience in ensuring software quality across two government projects, the **BTEB MIS** and the **LGED LMS** platforms.

- Participated in meetings with **BTEB representatives** to understand and validate business requirements, and explained QA workflows with business goals.
- Acted as a bridge between stakeholders and developers and clarified requirements, communicated edge cases, and helped resolve confusion during implementation.
- Authored comprehensive **test cases** based on business logic, collaborated with developers for clarification, and ensured functional coverage across UI and API layers.
- Conducted early-stage testing of UI components like login, homepage, header/footer, and navigation elements to establish test readiness for future modules.
- In the **LGED LMS** project, contributed to **SRS documentation**, executed smoke testing, and validated **APIs using Postman**, along with **performance testing via JMeter**, to support effective QA planning and ensure system reliability.
- Collaborated with cross-functional teams including developers, UI/UX, and project manager to align design and functional objectives.
- Maintained structured test documentation, followed **SDLC best practices**, and contributed to planning **UAT, regression, and integration testing** phases.

**Spectrum Engineering Consortium (Pvt.) Ltd**, Industrial Attachment

Dhaka, Bangladesh

- Built a mini e-commerce web app using HTML, PHP & SQL during hands-on project.
- Learned Git version control and participated in network infra knowledge-sharing sessions.
- Gained real-world teamwork & client communication experience.

## PROJECTS & RESEARCH

**Saucedemo Automation Testing | Selenium + TestNG + Java** ↗

- Developed robust **end-to-end** UI test suite validating full user journey from **login to checkout**.
- Applied Page Object Model (POM) to enhance code reusability and scalability across multiple test scenarios.
- Integrated structured **reporting and assertions** to ensure test reliability and facilitate clear execution analysis.

**DemoQA Automation Testing | Selenium + JUnit + Java** ↗

- Automated **20+ UI test cases** using POM structure with Java & JUnit.
- Generated detailed **test reports** using Maven Surefire plugin for better test visibility, tested complex user interactions (alerts, forms, drag & drop).
- Improved test reliability by integrating waits and cross-browser checks.

**Reqres API Testing | Postman + Newman** ↗

- Created **20+ test cases** covering GET, POST, PUT, DELETE valid/invalid scenarios.
- Automated **API collection** with **Newman** and generated test summary reports.
- Wrote **API documentation** simulating real-world QA deliverables.

**Swag Labs Manual Testing | Functional + UI** ↗

- Developed a comprehensive **test plan** outlining scope, strategy, and schedule; designed and executed **40+ test cases** using BVA, EP, and exploratory techniques.
- Reported **15+ bugs** across login, cart, and checkout flows with repro steps, severity levels, and screenshots/videos.
- Compiled a **Bug Report**, tracked issues via GitHub, and suggested UX/functionality improvements for filters and navigation.

**Papaya Diseases Recognition (Thesis Project)** ↗

- Created a **custom dataset of 10 papaya leaf/fruit** categories; applied **K-Means clustering & GLCM**.
- Achieved over **87.6% classification accuracy** using **K-Nearest Neighbors (KNN)**.

## SKILLS

### SQA Skills:

- Manual Testing:** Functional, Non-functional, Test Case Design, Execution & Evaluation
- Automation:** Selenium WebDriver, JUnit, TestNG
- API Testing:** Postman, Newman
- Performance Testing:** JMeter
- Methodologies:** SDLC, STLC, Bug Life Cycle, Agile Scrum
- Project Management Tools:** Jira

### Technical Skills:

- Programming Languages :** Python, Java
- Web Tech:** HTML, CSS
- Database:** MySQL
- Version Control:** Git, GitHub
- CI/CD:** Jenkins

## EXTRA-CURRICULAR ACTIVITIES

**IT Secretary**, Dhaka College Association of CUET - DCAC

Chittagong, Bangladesh