MD. SHAMIM OSMAN CHOWDHURY

SQA Engineer

Badda, Dhaka | 01639815290 | shamimosmanakash330@gmail.com
Portfolio | LinkedIn | GitHub

Summary

Fresh Computer Science and Engineering graduate (November 2026) specializing in Software Quality Assurance, with hands-on experience as an STQA Trainee. My core strategy is AI-driven testing and development: I use AI to speed up test design, automation, debugging, and web and software development, while relying on my own analytical thinking to verify the results. Skilled in manual, functional, and API testing with Postman, and UI automation using Playwright with TypeScript and Page Object Model, integrated into CI/CD through GitHub Actions. Experienced in requirement analysis (SRS/BRS), Jira defect tracking, and Agile SDLC/STLC workflows. Also a full-stack web developer (JavaScript, TypeScript, React, Node.js, MySQL, Supabase) who has built and deployed live web applications. Comfortable working in Linux and Windows, with business understanding and team leadership experience.

Technical Skills

AI-Driven Development & Testing: AI-Assisted Testing, AI-Assisted Web & Software Development, Test Case Generation with AI, AI-Assisted Debugging, Prompt Engineering
AI Tools & Platforms: ChatGPT, Claude Code, OpenCode, Google Antigravity, Google Flow (AI Video Generation), OpenRouter, AgentRouter
Software Testing & QA: Manual Testing, Functional Testing, Regression Testing, Unit Testing (JUnit 5), Mutation Testing (PITest), API Testing, Performance & Load Testing, Test Case Design (Boundary Value Analysis, Equivalence Partitioning), Bug Reporting
Test Automation & CI/CD: Playwright (TypeScript), Page Object Model (POM), GitHub Actions, Cross-Browser Testing (Chromium, Firefox)
Requirements & Process: Requirement Analysis (SRS, BRS), Test Documentation, SDLC, STLC, Agile
Web Development & Deployment: React, Node.js, HTML, CSS, Tailwind CSS, REST APIs, Supabase, MySQL, Progressive Web Apps (PWA), Live Web App Deployment
Programming Languages: JavaScript, TypeScript, Python, Java, C, C++
Tools: Postman, Jira, k6, Apache JMeter, Git, GitHub, Microsoft Office
Operating Systems: Linux (Ubuntu, Fedora, KDE Plasma, Bash), Windows
Soft Skills: Leadership, Team Coordination, Problem Solving, Analytical Thinking, Business Understanding

Experience

Center for Development of IT Professionals (CDIP), UIU — Dhaka, Bangladesh
STQA Trainee — **May 2026 – Oct 2026**

- Executed comprehensive manual, functional, and API testing for web applications following SDLC/STLC in Agile.
- Developed structured API test collections using Postman and practiced UI test automation scripts using Playwright.
- Designed test cases from project requirements, documented defects using Jira, and verified bug fixes.

Projects

— SQA & Automation Projects —

OrangeHRM Playwright POM Automation Project — *View Repository*
Core Tools: Playwright, TypeScript, Page Object Model (POM), GitHub Actions

- Built a Playwright-TypeScript framework using Page Object Model (POM) to automate account lifecycles and CI/CD pipelines via GitHub Actions.

CartUp Shopping Flow E2E Test Automation — *View Repository*
Core Tools: Playwright, TypeScript, Page Object Model (POM), GitHub Actions

- Automated an E2E e-commerce workflow covering user login, product search, cart updates, and checkout initiation using Playwright and TypeScript.
- Integrated GitHub Actions CI/CD pipelines to run test suites across Chromium, Firefox, and WebKit with artifact reporting.

Parking Slot Booking System – Unit & Mutation Testing — *View Repository*
STQA Course Project | Core Tools: Java, JUnit 5, PITest, Maven

- Implemented 34 JUnit 5 unit test cases applying Boundary Value Analysis (BVA), Equivalence Partitioning (EP), and mutation testing with PITest, discovering 8 critical domain logic defects.

Panda Lite – API Testing & Validation — *View Repository*
STQA Course Project | Core Tools: Postman, REST API, JSON

- Performed end-to-end RESTful API validation using Postman to verify endpoints, HTTP status codes, and request/response payloads.

— Hobby & Development Projects —

FindYourPain – UIU Tentative Exam Routine Locator — *Live App | View Repository*
Hobby Project | Core Tools: HTML5, CSS3, ES6 JavaScript

- Developed a responsive web application enabling students to simultaneously search and chronologically organize multiple course exam schedules.

- Implemented smart search hints, duplicate filtering, and a futuristic glassmorphism UI with interactive animations.

Pocket Manager – Progressive Web App (PWA) *Live App* | *View Repository*

Hobby Project | Core Tools: JavaScript, HTML, Tailwind CSS, Supabase

- Developed an expense management PWA featuring offline support, real-time budget tracking, bill splitting, and automated PDF exports.

Medisoft – Telemedicine & Healthcare Platform *View Repository*

Software Engineering Course Project | Core Tools: React, Vue, Django, MySQL

- Built a healthcare platform integrating doctor appointments, hospital bed reservations, emergency ambulance requests, and online medicine ordering.
- Implemented role-based access for patients and doctors, alongside an admin module for centralized resource monitoring.

— Data Science & AI Projects —

Derm-AI – Skin Lesion Classification Web App *Live App* | *View Repository*

Personal Project | Core Tools: Python, TensorFlow/Keras, MobileNetV2, Streamlit

- Built and deployed a Streamlit web app that classifies skin lesion images into five categories using a fine-tuned MobileNetV2 deep learning model.
- Applied the same preprocessing as training (224×224 resize, MobileNetV2 pixel scaling) and displayed the predicted class, confidence score, and full probability distribution.
- Added a 60% confidence threshold that shows an uncertainty message and advises consulting a dermatologist for low-confidence predictions.

Education

United International University Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering | Graduate: Nov 2026

Thakurgaon Govt. College
Higher Secondary Certificate (HSC) **GPA: 5.00 / 5.00** | Passed: 2020

Thakurgaon Govt. Boys' High School
Secondary School Certificate (SSC) **GPA: 5.00 / 5.00** | Passed: 2018

Achievements & Certifications

- **Software Testing & Quality Assurance** — Successfully completed a 32-hour certificate training program offered by the Center for Development of IT Professionals (CDIP), United International University (UIU), July 2026.

Leadership & Extracurricular

Robotics Club, UIU *(Member, 2023 – 2025)* | **Science Club** *(Senior Executive, 2019 – 2020)*

- Coordinated cross-functional team activities, managed project tasks for a 20-member team, and organized technical events.

References

Dr. Suman Ahmmed
Head & Associate Professor, Dept. of CSE
Director CDIP, United International University
Email: suman@cse.uiu.ac.bd

Parvez Hossain
ISTQB® Certified Sr. SQA Engineer
Kona SL (Ex- TigerIT, Robi, BRAC IT)
Email: parvez9605@gmail.com