

Md Sultan Parvez

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MSc Student in Quantum Information Science | Experienced QA Automation Engineer

I am an MSc student in Quantum Information Science with 4+ years of professional experience as a QA Automation Engineer. I have specialized in automation frameworks (Cypress, Selenium, REST Assured), API testing, and CI/CD pipelines. My role as a QA Coach also involved mentoring teams and driving best practices in software quality. I am passionate about building robust automation solutions and exploring the intersection of software engineering and quantum computing.



Work Experience

Dynamic Solution Innovators (DSi)

Feb 2021 – Aug 2025

Software Quality Assurance Engineer, Dhaka, Bangladesh

- Led automation testing efforts for clients including Black Duck and Synopsys.
- Developed and executed automated test scripts using Selenium, Cypress, REST Assured.
- Performed API testing, security checks, and compliance verification.
- Integrated automation scripts into CI/CD pipelines for seamless deployments.
- Documented processes and maintained test cases using Jira and Confluence.

Black Duck (Client of DSi)

Oct 2024 – Aug 2025

QA Automation Engineer, Remote

- Automated end-to-end tests with Cypress and REST Assured.
- Collaborated with DevOps teams on pipeline integration.

Synopsys (Client of DSi)

Aug 2023 – Sept 2024

QA Automation Engineer, Remote

- Built automation coverage for open-source compliance tools.
- Ensured stability across CI/CD environments.

AMT Direct (Client of DSi)

Feb 2021 – July 2023

QA Engineer, Remote

- Performed functional and regression testing of real estate lease management software.
- Designed and executed detailed test plans ensuring compliance with requirements.

Education

University of Copenhagen

2025 – 2027

MSc in Quantum Information Science

- Learning theoretical and practical foundations of quantum computing.
- Focus on quantum algorithms, quantum error correction, and quantum information theory.
- Bridging physics, mathematics, and computer science for advanced research and applications.

- Studied core areas: algorithms, software engineering, databases, and AI.
- Conducted research in reinforcement learning applied to finance.
- Thesis: *Reinforcement Learning Applied to Finance* – applied PPO with financial indicators to design trading strategies.

Skills

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| • Automation Tools: Cypress, Selenium, REST Assured, Pytest, JMeter, Postman | • Languages: Java, Python, JavaScript |
| • CI/CD and Cloud: Jenkins, Docker, GitHub Actions, AWS | • Collaboration: Jira, Confluence, Report Portal |

Projects

Machine Learning Approach to Credit Card Fraudulent Detection

- Technologies: Supervised Learning, Feature Engineering, AdaBoost, XGBoost, Neural Network.
- Developed a system to detect fraudulent credit card transactions in real-time using ML techniques.
- Evaluated model performance with multiple metrics and improved accuracy through hyperparameter tuning.

UI Automation (Cypress)

- Built UI automation scripts for an e-commerce site using Cypress.
- Integrated with Report Portal to visualize test execution and reporting.
- Designed reusable test architecture to simplify adding new test cases.

UI Automation (Pytest)

- Technologies: Selenium, Pytest, Pytest-HTML.
- Developed UI test automation scripts for an e-commerce application.
- Followed Page Object Model (POM) structure to ensure reusability and reduce redundancy.
- Enhanced test reporting and debugging using Pytest-HTML reports.

Blogs

Selector Strategies

- Wrote about effective locator/selector strategies for identifying DOM elements.
- Explained best practices for building maintainable test automation scripts.
- Shared practical examples from real-world QA automation.

Getting Started with Cypress

- Beginner's guide to installing and setting up Cypress.
- Covered writing first tests, running them, and debugging.