Ali Imam Abir

Software Quality Assurance Engineer, Nilavo Technologies Ltd., Bangladesh

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Professional Statement

I am a software quality assurance engineer at Nilavo Technologies Ltd., Bangladesh. I earned a Bachelor of Science in Computer Science and Engineering from Islamic University of Technology in 2016. I am a self-motivated and detail-oriented individual with an extensive understanding of programming languages and tools. I am an avid problem solver with strong analytical and critical thinking skills. I enjoy working both independently and in groups. My responsibilities as a software quality assurance engineer involve testing web applications, as well as debugging and troubleshooting issues and conducting research and development on available technologies for incorporating new automated cases. I also responsible for security related test as well. In my spare time, I enjoy researching and learning about various aspects of computer science that fascinate me.

Education

2012 - 2016	**BSc Computer Science and Engineering**, Islamic University of Technology, Bangladesh
	Specialization: Bioinformatics
	Thesis Topic: DNA Motif Finding Algorithm
	Supervisor: Dr. M.A. Mottalib

Selected Courses (Undergraduate)

Computer Fundamentals and Programming; Computer Programming; Object-Oriented Programming; Visual Programming; Data Structures; Algorithms; DBMS; RDBMS Programming; Engineering Drawing; Geometry and Differential Calculus; Discrete Mathematics; Integral Calculus and Differential Equations; Linear Algebra; Statistical and Mathematical Analysis; Numerical Analysis; Probability & Stochastic Processes; Operating Systems; Microprocessors and Assembly Language; Systems Analysis and Design; Software Engineering & OOD; Graph Theory; Machine Learning; Unix Programming; Software Development; Artificial Intelligence & Expert Systems; Theory of Computing; Digital Signal Processing; Digital Image Processing; Bioinformatics; Pattern Recognition.

Programming / Technical Skills

Python, Java, Android, C/C++, JavaScript, HTML/CSS, Test Automation (Protractor, Cypress), Docker, API testing, Burp, Acunetix, CI-CD pipeline, Cybersecurity, IDEs and Text editors, Command line tools

Industrial Experience

Software Quality Assurance Engineer

July 2020– Present   **Nilavo Technologies Ltd. (Offshore facility of Biscom Inc, Boston, USA)**

Responsibilities: R&D on different automation tools (Selenium, Cypress, Appium, Rspec, Protractor, etc.). Prepare different test environment (Windows and Linux Server, Docker, CI/CD pipeline with Jenkins). R&D on different security testing related tools (Burp, Acunetix, SQLMap etc.). Prepare test strategy, test plan and Perform Security & Stress testing. Collaborate with Dev Team and Lead QA internship program.

Junior Software Quality Assurance Engineer

September 2017 – June 2020   Nilavo Technologies Ltd. (Offshore facility of Biscom Inc, Boston, USA)

Responsibilities: Bug verification, validation and Reporting. Writing test script, test cases and test plan. Test case automation using Selenium (Ruby, JavaScript). Load test using JMeter. Provide improvement ideas.

Lecturer

January 2017 – August 2017   Uttara University, Bangladesh

Responsibilities: Taught a total of 3 undergraduate courses, (System analysis and Design, Digital Logic Design and C). Also took the lab classes.

Software Quality Assurance Engineer Intern

October 2015 – December 2015   Nilavo Technologies Ltd. (Offshore facility of Biscom Inc, Boston, USA)

Responsibilities: Test Automation using Selenium (Ruby). Test on Firefox, IE, Chrome, Safari, Opera browser. Writing test cases and provide improvement ideas.

Awards

- 2nd Runners Up in project showcasing competition of 7th IUT ICT FEST 2015 for Durjoy Mobile Controlled Rescue Robot (Android controlled real time live streaming robot)
- Runner up in Regional Mathematics Olympiad in 2011.

Publications

Conference Papers (refereed)

- "RPPMD (Randomly projected possible motif discovery): An efficient bucketing method for finding DNA planted Motif," 2017 International Conference on Electrical, Computer and Communication Engineering (ECCE), 2017, pp. 509-513, doi:10.1109/ECACE.2017.7912958
- "Polarity detection of online news articles based on sentence structure and dynamic dictionary," 2017 20th International Conference of Computer and Information Technology (ICCIT), 2017, pp. 1-5, doi: 10.1109/ICCITECHN.2017.8281777.

Projects

Biscom Cloud and On-prem Secure File Transfer- Both on-prem and cloud solutions support simple, secure, and fast file transfer – it all depends on organization needs. For extremely large terabyte-size files and automation utilities, with granular administrative control and configuration, choose Biscom On-prem Secure File Transfer. For fast adoption, broad support for all browsers and mobile devices as a pure SaaS offering and no software on-site, Biscom Cloud SFT may be a better fit. Either way, they provide e end-to-end security with FIPS 140-2 certified encryption at rest, full tracking and reporting, and notifications when messages and files are opened and downloaded.

Biscom Enterprise Cloud and On-prem Fax Solutions- The goal is to transform companies from legacy fax machines to pure digital delivery of faxes with automation, security, and reporting for companies that need to understand how information flows into and out of their organization. A modular architecture that supports pluggable add-ons such as policy-based and intelligent routing, enterprise fax management, real time dashboards, OCR and bar code scanning, and other automated document processing. Developers can take advantage of REST APIs to tightly integrate back end systems such as EMRs, CRM, and ERP – to make fax workflows seamless.

Anvil EQ™ (Anvil EQ)– Anvil EQ™ is an on-demand equity administration application specifically designed for private companies, their legal advisors, accountants, and investors. The basic application facilitates the seamless management of stock and option schedules. Additional standard and custom modules may be added for more complex tasks, including stock option expensing (ASC Topic 718) for companies and mark-to-market valuations for funds.

Durjoy Mobile Controlled Rescue Robot– Android app which control the robot. Live streaming from the camera attached to the robot.

Wallet – An android application which keeps track of all the daily income and expense, Plans for future expansion and Graph of income and expense of last 1 month

Railway Ticket Management System – Web application for processing Railway tickets.

Voice Changer– Using MATLAB Frequency of voice was changed in different range for different voice