Lisan Sarkar
QA Engineer

Professional Summary

Detail-oriented and highly skilled Quality Assurance Executive with **2** years(almost) of experience in **software testing**, **automation**, and **browser-based QA**. Proficient in manual and automated testing, ensuring high-quality web applications with a keen eye for pixel-perfect front-end alignment. Extensive experience with **Python automation**, **web scraping**, **API testing,** and browser automation using tools like **Selenium**, **Playwright**, and **Puppeteer**. Passionate about improving customer experience through meticulous testing, debugging, and process automation. Strong knowledge of website security, **SQL injections**, and **API vulnerability testing**, ensuring secure and robust web applications. Adept at working in **remote environments** and collaborating across international teams. Skilled in leveraging AI tools like **DeepSeek R1** and **Claude 3.5** Sonnet to enhance testing efficiency and innovation. Proficient in using **Chrome DevTools, GTmetrix , PageSpeed Insights** and **Google Analytics** for debugging and performance optimization, **Figma** for design validation, **Google Lighthouse** for performance auditing, and **Postman** and **Httpie** for API testing and debugging.

Technical Skills & Expertise

- **QA & Testing Tools:** Selenium, Playwright, Puppeteer, Cypress, TestRail, Bug Magnet, Postman, Wireshark, HTTPie, Google Lighthouse
- **Automation & Web Scraping:** Python (Selenium, BeautifulSoup, Scrapy, HTTPX, Requests, Regex)
- **Front-End & UI Testing:** HTML, CSS, JavaScript, React.js, Core JavaScript, Figma, Chrome DevTools, BrowserStack
- **Development & Scripting:** Python, Bash Scripting, Jest (basic knowledge)
- **Collaboration & Dev Tools:** GitHub, GitLab, Google Meet, Notion, Obsidian
- **Cloud & APIs:** Google OAuth2, Gmail API, RESTful APIs, Facebook Graph API, Instagram API
- **API Testing & Security:** Postman, Wireshark, HTTPie, API debugging, SQL injections, website security vulnerabilities
- **Operating Systems:** Linux (Fedora Workstation), Windows
- **CRO & Analytics Tools:** HotJar, FullStory, Google Analytics (basic knowledge)
- **AI Tools:** DeepSeek R1, Claude 3.5 Sonnet, ChatGPT, Ollama

Professional Experience

IGroot Limited | Quality Assurance Specialist
Jul 2023 – Present | Remote
Key responsibilities:
- Led QA efforts on multiple projects, ensuring software met functional and design specifications.
- Utilized Google Lighthouse for performance auditing, ensuring optimal load times, accessibility, and SEO compliance.
- Leveraged Chrome DevTools and BrowserStack for front-end testing and performance optimization.
- Wrote and executed manual and automated test cases for web applications and APIs, ensuring pixel-perfect alignment with Figma designs.
- Conducted bug tracking, debugging, root cause analysis, and API security testing.
- Worked with Facebook Graph API and Instagram API for automated data extraction and analysis.
- Performed data validation and web scraping using Python (Selenium, BeautifulSoup, Scrapy) to ensure data integrity and automate data collection processes.
- Tested **Zerocium**, a social media query management tool, ensuring seamless functionality and performance across platforms.
- Collaborated with cross-functional teams using Google Meet, GitHub, GitLab, Notion, and Obsidian for seamless communication and project management.
- Leveraged AI tools like DeepSeek R1 and Claude 3.5 Sonnet to enhance testing workflows and automate repetitive tasks.

Techgarlic Ltd. | Data Quality Assurance Executive
Jan 2023 – Jul 2023 | On-Site

Key responsibilities:
- Conducted manual and automated testing on large datasets to ensure data integrity and high-quality outputs.
- Performed Google dorking to identify and validate publicly available data for quality assurance purposes.
- Monitored and analyzed Dotkom data flow to ensure seamless data integration and accuracy across systems.
- Conducted API testing using Postman and Playwright to validate data retrieval, processing, and security.
- Developed and executed automated scraping scripts using Python (Playwright, BeautifulSoup, Scrapy) to collect and validate data from various sources.
- Worked extensively with Google Drive APIs to automate file management, data synchronization, and quality checks.
- Focused on Facebook data validation, ensuring accuracy and consistency in data extraction and processing.
- Performed sentiment tagging on datasets to categorize and analyze user feedback, reviews, and social media interactions for actionable insights.
- Leveraged Playwright for browser automation and end-to-end testing of web applications, ensuring data accuracy and functionality.
- Collaborated with cross-functional teams to improve software efficiency, data quality, and user experience.
- Utilized Bash scripting for automating repetitive tasks and improving workflow efficiency..

Terabit IT Solutions| Web Development Intern
May 2024 - Nov 2024 | On-Site

Key responsibilities:
- Developed web-based applications using HTML, CSS, JavaScript, and React.js(basic).
- Gained hands-on experience in front-end testing, debugging, and performance optimization.
- Worked with RESTful APIs, Git-based version control, and cross-browser compatibility testing.
- Assisted in the development of responsive and user-friendly web interfaces, ensuring alignment with design specifications.

Key Projects & Contributions

1. **National Polytechnic Institute – Exam Control Automation System**
- Designed and developed an automated exam control system that:
  - Extracts student data and identifies exam schedules using subCode matching.
  - Emails students automatically regarding upcoming exams.
  - Generates Excel and PDF reports for administrative review.
  - Publishes automated notices on the institute's website and social media.
- Utilized Python automation and web scraping to fetch and process student data.
- Integrated Gmail API for automated email notifications and Google OAuth2 for secure authentication.

2. **NID Box ID Finder Automation**
- Developed a barcode-based NID Box ID Finder that:
  - Scans an old NID barcode.
  - Extracts and auto-fills data into the government's NID portal.
  - Fetches and retrieves the correct NID Box ID for efficient distribution.
  - Used to be a volunteer campaign for NID smart card distribution.
- Leveraged Python automation and browser automation tools like *Playwright* to streamline the process.

3. **LinkedIn Automation & Facebook Location Finder**
- Built an automated LinkedIn engagement system for professional networking.
- Developed a Facebook-based people location finder using publicly available data.
- Utilized Facebook Graph API for data extraction and analysis.

4. **Bulk Email Automation System (MailCast)**
- Created a bulk email sender that:
  - Allows users to send emails via personal or domain email accounts.
  - Implements Google OAuth2 & Gmail API for secure email handling.
- Integrated Python automation for seamless email scheduling and delivery.

5. **API Based Data Extraction**
- Worked with Facebook Graph API & Instagram API to automate data retrieval and analysis.

Soft Skill

- Strong analytical and problem-solving skills.
- Excellent attention to detail in UI/UX and functional testing.
- Effective remote communication and collaboration in cross-functional teams.
- Passionate about automation, AI, and improving software efficiency.
- Ability to work in EST & CST time zones and adapt to international teams.

Education Background

National Polytechnic Institute
Diploma in Computer Engineering
Completed in 2024
CGPA : 3.67 (out of 4)

Languages

- English (Fluent)
- Bengali (Native)

My Contact

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