FARIA HABIB

Assistant Software Quality Assurance Engineer, Dynamic Solution Innovators

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Work Experience

April, 2022 – Present   🔖 **Assistant Software Quality Assurance Engineer**, Dynamic Solution Innovators

PROJECTS:

- **Synopsys (Black Duck)**- Automation Engineer - (September 2023 - Present)

  - Proficient in designing and implementing test cases using **Page Object Model (POM)** framework of **Cypress** for efficient and scalable **Web UI and Functional** testing.

  - Extensive experience in writing **API tests** using Cypress.js, ensuring robust and reliable API functionality.

  - Demonstrated expertise in **Dockerizing** the entire project and orchestrating with **Docker Swarm** for efficient deployment and management of containerized applications.

  - Proficient in deploying applications using **Docker** and **Linux** commands, ensuring effective deployment and maintenance of applications in various environments.

  - Utilized **VI commands** for efficient text editing and configuration management on Linux systems.

  - Proficient in **Git commands**, creating and reviewing **Merge Requests** (MR) on GitLab for each test case, ensuring collaborative and version-controlled development.

  - Acquiring proficiency in **Rest Assured** framework for comprehensive **API testing**, ensuring the reliability and performance of back-end services.

- **MRI Softwares (AMTDirect)**- Software Quality Assurance Engineer - (April 2022 - September 2023)

  - Created Automated Test Scripts using **Cypress JS**

  - Worked on scheduled-based automation script run using **Github Workflow**

  - Created Manual Test Scenarios and Test Cases

  - Worked on UI Bug fixes using **HTML, CSS & Javascript**

- **DEM: Employee Attendance Management System** - Assisted as Software Developer Trainee - (December 2022 - January 2023)

  - Updated dependencies of **Java Jersey**

  - Write updated queries on the application and in **Microsoft SQL Server** to validate the queries

Work Experience (continued)

2021   ◤ **Intern**, Grameen Phone

- Became familiar with **Communications technology** and the **Business's data transfer process**

- Learned deeply about **Networking & Security**

- Earned knowledge of **Cloud Data Communication**

Education

2018 – 2021   ◤ **Bachelor of Science(BSc) in Computer Science & Engineering**
Military Institute of Science & Technology, Dhaka, Bangladesh
CGPA: 3.31 out of 4.00

Projects

◤ **CareMother:**
IoT-based Fitness Tracker and Android Mobile Application Developed.
I've developed a sustainable and cost-effective embedded system comprising a *smartwatch* and an *Android-based mobile app* interconnected via a real-time *Firebase* database.The system focuses on measuring critical health parameters like *blood pressure, pulse rate, and temperature,* in addition to *tracking movement, generating weekly health metric reports, providing emergency alerts, sleep tracking, facilitating communication, enabling ambulance calls,* and *offering entertainment features.*Additionally, proper software testing using *Katalon Studio* was performed which demonstrated the excellent performance of the application.
Tools & Tech: Java, Google APIs, Gradle, Android Studio, Firebase, Arduino, Sensors, Katalon Studio,

◤ **Acoustic VR Game:**
An audio-based VR Game for Blind People
Developed an Acoustic VR game to enhance ethical values among visually impaired individuals incorporating key design elements: *spatial sound effects, haptic inputs, speech recognition, vibrotactile feedback, voice-over instructions, large buttons, interactive plots, multiple endings,* and *scoring methods*. The audio-based interactive stories incorporated narrations and specialized sound effects. *Microsoft Azure's text-to-speech converter* was employed for creating the narrations, while *Unity asset* and *Soundsnap* facilitated the production of spatially enhanced sounds. These sounds were further enhanced using *Audacity* to add dynamic effects. An *Android application* was developed, encompassing these design aspects, and it stored and displayed scores and game levels in real-time through a *Firebase* real-time database connection.
Tools & Tech: Java, Google APIs, Gradle, Firebase, Android Studio, Microsoft Azure text-to-speech converter, Soundsnap, Unity Asset, Audacity

◤ **FullStack CRUD Application using Spring Boot:**
A SpringBoot-based Web Application Performing CRUP operations
Developed a simple full-stack application performing CRUD operations using Spring Boot Framework.
Tools & Techs: Java, Springboot, React, Javascript, Maven, MySQL, API

Projects (continued)

- **Automated Salon Management System:**
  A Web Application for Salon Management
  Using HTML, CSS, and JavaScript, the "A.S.M.A" Web Application was developed and JavaScript was used to link the website to the Oracle Database. Keeping track of client information, client appointments, employee information, services, client reviews, available products, inventories, rents and profits, income statements, etc. was the purpose of developing this application.
  Tools& Techs: HTML, CSS, JavaScript, PL/SQL, SCSS

Technical Skills

- **Programming Languages:** Java, Javascript, Python, C++, C, Assembly (Intel x86, MIPS)
- **Frameworks:** Springboot, React JS, Node JS, Flutter, Android SDK, JQuery, Bootstrap
- **Tools/IDE:** Visual Studio Code, IntellijeIDEA, Android Studio, Codeblocks, Pycharm, Chrome DevTools
- **Databases:** MySQL, PL/SQL, Microsoft SQL Server, SQLite, Oracle, NoSQL(Firebase)
- **Scripting & Modeling:** HTML, CSS, Latex, Shell, Draw.io, Lucidchart, MySQL Workbench.
- **Test Automation Tools:** Cypress, Selenium TestNG, Postman, Cucumber, Apium, JMeter, Rest Assured
- **DevOps:** Jenkins, CI/CD, GitHub Actions
- **Data Analyzing Tools:** Excel, Power BI, Tableau, Google Bigquery, Google Colab, Matlab
- **Others** MSOffice, Jira, GSuite, Git

Miscellaneous Experience

Awards and Achievements

- **MIST Dean's List of Honour**, (Academic Session 2020-2021)

Certification

- **SDET - Full stack SQA and Software Test Automation** : Ranked as Top 5 Performer.
- **CompTIA A+:** From New Horizons, Student ID # NHB19138
- **C++:** From New Horizons
- **Python For Data Science** : From Kiron.pro, USA, with a final number of 40/40.
- **Red Hat System Administration I** : From AT Computer Solution
- **Language Proficiency**: IELTS: Overall 7 (L:8,R:7.5,S:6.5,W:6.5)
- Participated in **NGPC**