ABHAYA SHRESTHA

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LinkedIn, Portfolio, GitHub

PROFESSIONAL SUMMARY

A dedicated and detail-oriented QA engineer with over 3 years of experience and expertise in automating tests and ensuring software quality, currently studying for a Master of IT and seeking opportunities in a dynamic tech environment.

EDUCATION

Griffith University   *Queensland, Australia*
Master of Information Technology   *October 2023 - Present*

Vellore Institute of Technology   *Vellore, India*
Bachelor of Computer Science and Engineering   *July 2016 – July 2020*

St. Xavier's College, Maitighar   *Kathmandu, Nepal*
A - Levels   *June 2013 – August 2015*

EXPERIENCE

VERISK NEPAL   *Kathmandu, Nepal*
QA Automation Engineer/ Software Engineer   *April 2021 – September 2023*

- Developed API regression scripts using Apache JMeter, integrating them into Bamboo plans; ensured software reliability through consistent execution, reducing critical issues by 40% and enhancing system stability.
- Collaborated closely with multiple cross-functional teams to streamline processes and meet project deadlines.
- Developed and executed test plans, test cases, and test scripts to validate and verify software functionality, usability, and performance.
- Conducted regression testing on various applications, identifying and addressing critical issues pre-release and improving overall product stability.
- Implemented automated test scripts to improve test coverage by 20% using CI/CD with bamboo.
- Executed manual and automated testing, documenting, and tracking bugs using Jira.
- Conducted load and performance tests using Apache JMeter and Postman, analysing and sharing detailed results with the team, enabling data-driven decisions for optimisation and reducing response times by 25%.
- Key member in over 60 successful production releases with 3 projects, effectively managing timelines and ensuring delivery within the expected time frame.
- Assisted QA colleagues with UI and API automation scripts, encouraging knowledge-sharing and supporting the team's automation efforts.
- Presented in 2 JMeter workshops on API test automation, teaching over 50 participants.

NEXUS CONSULTANCY   *Kathmandu, Nepal*
Jr. QA Analyst   *August 2020 – March 2021*

- Assisted in manual testing.
- Assisted in load and stress testing of gateway APIs.
- Contributed to 5 minor production releases.
- Researched various QA tools and techniques.

NEPAL TELECOM   *Kathmandu, Nepal*
Web Developer Intern   *June 2019 – July 2019*

- Worked and assisted with mock-ups of small sections of the website.
- Researched and learned about JavaScript frameworks and databases.
- Took part in various training sessions, gaining insights into industry best practices.

TECHNICAL SKILLS AND TOOLS

Languages: Java, Python, JavaScript

Tools: MySQL, NoSQL, MongoDB, JMeter, DocumentDB, GIT, JIRA, Bamboo, Bitbucket, Arduino, Solr, Swagger, Maven, Postman, React Native, HTML, CSS, JSON

Skills: Agile, CI/CD, Regression testing, Load testing, Test planning and execution, Test automation, Bug identification and documentation

Familiar: Selenium, MATLAB, R, AWS, Octopus, Swing

Spoken: English, Nepali, Hindi

PROJECTS

- **Fake Store (JavaScript, React Native, Redux, FakestoreAPI, Custom API Server, Github)**
  Developed a cross-platform mobile application that integrates with both the fakestoreapi website and a provided Fake Store API server to simulate a comprehensive online shopping experience. The app consists of nine different screens, each fulfilling different specific functions and uses Redux with reduxjs/toolkit to handle states.

- **Todo List (JavaScript, React Native, AsyncStorage, Github)**
  Created a personal task manager mobile application that allows users to add, view, edit, and delete to-do items. Utilised AsyncStorage to ensure all changes to to-do items, including additions, deletions, and state updates, are persistently stored and accurately reflected across app launches.

- **Employee Database (PHP, MySQL, JS, CSS, HTML)**
  Designed a website that handles databases according to hierarchical authority. Enabled employers to manage all employees, while employees could only view and submit their attendance.

- **Bank ATM simulation (Java, Swing, MySQL)**
  Simulated a bank ATM using the Swing framework to design the UI. The project includes a login frame and multiple sign-up frames, with data stored in a database and managed using MySQL.

- **Smart Waste Management System in Smart Cities Using IOT (Arduino, ThingSpeak)**
  Implemented a waste management system using several sensors connected to an Arduino. The sensors act according to the limits set in the code uploaded and send the collected data using a GSM module to the chosen device and the Wi-Fi module to the ThingSpeak cloud, respectively.

COURSES

- Java Programming: Arrays, Lists, and Structured Data, Coursera
- Fundamentals of Parallelism on Intel Architecture, Coursera