Harsh Bhardwaj

Phone: +44 7767951516

Email: harshbhardwaj728.hb@gmail.com

LinkedIn: www.linkedin.com/in/b-Harsh

harsh1197.github.io/Portfolio/

EDUCATION

Year	Course	Specialization	Institute	%/CGPA
2022-2023	Master of Science	Computer Science	University Of Birmingham, UK	
2016-2020	Bachelor of Engineering	Electronics & Communication	Panjab University, India	7.69

PROFESSIONAL EXPERIENCE

Infosys Limited, Chandigarh, India | November 2020 – August 2022

Client: Royal Bank of Scotland   **Automation Engineer**   **Period**: April 2021-Aug 2022

- Designed an automation testing framework for a web application used for creating bank-line forms using Java, Silk4j, Selenium WebDriver and Cucumber-BDD covering the end-end application flow along-with key integration services such as Adobe e-sign and IronPort.
- Developed Web UI tests using Robot framework and Selenium and executed regression and sanity suites after deployment generating detailed extent reports to ensure successful deployment.
- Created automation scripts to verify MongoDB status for the integration services and used complex SQL queries to perform database testing, also supported DevOps integration for continuous deployment.
- Maintained the automation code by using GIT as a version-controlled system with Bitbucket as the online repository.
- Created and implemented Test Plan and Test Strategy Document outlining the scope, objectives, timeline, and focus of software testing effort for automation scripts, also helped the team in analyzing business requirements and extracted use cases required for performing automation
- Regular involvement in Sprint Review and Retrospective for continuous improvement in the release process, analysis of functional requirements, resolution of reported bugs and regular feedback to the Scrum team for bugs/performance issues found during development lifecycle.

Project: In-Essence Bank Application   **Systems Engineer Trainee**   **Period**: Nov 2020 - Mar2021

- Worked on Selenium TestNG framework to automate a web-based banking application and performed data driven testing using Selenium WebDriver, TestNG annotations, Apache POI library and cucumber.
- Implemented BDD frameworks writing Cucumber features, Scenarios and step definitions to design and maintain automated test scripts using Java and Junit runner class.
- Implemented Page Object Model Design Pattern for the framework and used Jenkins as continuous integration server to run automated test suites and maven as the build management tool.
- Involved in Web Services Testing involved creating functional cases to test Soap and Rest services, creating groovy script for parameterization and validating the response with assertions in SoapUI tool.
- Created defect logger depicting irregularities and tracked them for closure.

Code Brew Innovations Private Limited, Chandigarh, India | Jan 2020 – July 2020
iOS Intern

- Designing and Developing iOS application from the ground using MVC design pattern working extensively with Swift, XCode and Interface Builder for the client applications at hand.
- Working with JSON inputs to pull the data from backend and display it on the app using Alamofire framework and created UI screens with custom UITableViews, UICollectionView, Stack, UIScrollView using Cocoa-Touch frameworks and implemented Core data framework to store user data along with Google and Facebook SDK integration for user login.
- Collaborated with the scrum team to translate client requirements into implementable user stories and improved product quality through code reviews and collaborating with QA on implementing automation

ACADEMIC PROJECTS

Email Automation, Analytics and Visualization   **Period**: June 2019-July 2019
- The purpose of this project is to analyse email patterns by first connecting to an email server, categorizing the received messages, creating visualizations in terms of email traffic for a given dataset and analysing email statistics using Pandas and its representation using Matplotlib.
- Built and trained a spam classifier using the contents of an email and grouping similar mails together using clustering algorithms like K-means to prevent email clutter.

Attendance and Payroll Management System   **Period**: June 2018-Aug 2018
- The website contains an employee's login side and an admin panel where the employee can view his monthly attendance report and the website interacts with a user created database based on MySQL which stores all the information of employees as well as stores the information of all their leave data.
- The website is built with the help of HTML and CSS for the front-end design and at the back end uses a PHP script which processes the different requests sent by the employee and calculates the end of month payroll after deductions based on employee's performance and leave data.

Vehicle Theft Detection and Remote Engine Locking
- An IoT based vehicle theft detection and remote engine locking system that helps the users identify the vehicle in theft mode and enables the controlling mechanism technique, which was further enhanced by using a GPS System that helps to find out the exact location of the vehicle.

Quad-Copter
- Developed a four-winged drone that made use of an Arduino microcontroller Atmel 328 as the core controller, designed to achieve a real-time operating system capable of stable flight with radio control.

TECHNICAL SKILLS

- **Programming Languages:** C++, JAVA, Python, Swift, SQL
- **Programming Experience:** 2+ years in JAVA and 1 year in Python and C++
- **Web Programming Technologies:** Html, CSS, JavaScript, PHP, AJAX
- **Automation Tools:** Selenium, Silk4j, Cucumber BDD, Maven, TestNG, SoapUI, Jenkins
- **Tools:** MATLAB, XCode, Eclipse, IntelliJ Idea, Visual Studio, PyCharm, jupyter notebook, JIRA, Git, Confluence

AWARDS

- Got recognized with the "RISE ROOKIE OF THE QUARTER" award for my overall performance in the financial year 2022 and received the Success story nomination for that.

- Received the RISE INSTA award for my project work which required me to design an automation framework for client application within a stipulated time period that could increase the speed of execution and project delivery, and demoed the proof of concept to key stakeholders.