

Harsh Bhardwaj

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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

Automation Engineer

Client: Royal Bank of Scotland (Infosys)

Period: April 2021-Aug 2022

- Designed an automation framework for a web application using Silk4j, Selenium Webdriver and Cucumber using Java programming language and scaled up the framework to be robust enough for conversion of manual test cases to automated cases.
- Worked on Proof Of Concept for automation of Mainframe Legacy System testing automation and convinced client to implement Silk4j automation for Direct Channel project which increased the speed of execution and project delivery.
- 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.
- Demonstrated the proof of concept for automation to key stakeholders, conducted training sessions for resources and enabled them to contribute to business value addition by incorporating automation in their modules as well.

Project: In-Essence Bank Application

Systems Engineer Trainee

Period: Nov 2020-April 2021

- Worked on Selenium TestNG framework to automate a web based banking application for deposit, opening new FD/RD account and credit card modules.
- Performed Data driven testing using Selenium WebDriver, TestNG functions and JDBC Connections which reads data from scripts using property and XML files.
- Implemented Page Object Model Design Pattern for the framework and used Jenkins as continuous integration server to run automated test suites.
- 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.

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 employees 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 create an automation framework for a 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.