Harsh Bhardwaj

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harsh1197.github.io/Portfolio/

EDUCATION

Year	Course	Specialization	Institute	CGPA
2022-2023	Master of Science	Computer Science	University Of Birmingham	**Ongoing**
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 - Mar 2021

- Worked on Selenium TestNG framework to automate a web-based banking application and performed data driven testing using Java, 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 by creating functional cases to test Soap and Rest services, creating groovy script for parameterization and validating the response with assertions in SoapUI tool.
- Designed web pages and handled HTML, CSS and JavaScript code and fixed any coding or compiling issues.

ACADEMIC PROJECTS

Ecommerce Application using Mern Stack -Cart-Hive   **Period**: Feb 2023 – Mar 2023

- Developed a full-stack ecommerce website using the MERN stack that allows users to browse and purchase products online, with an accompanying admin panel to manage the store's inventory, orders, and customers.
- Created CRUD operations for managing products, orders, customers using REST API endpoints and implemented user authentication and authorization using JWT tokens.
- Implemented integration of the Braintree payment gateway to provide a secure online payment option for the application, alongside the implementation of the shopping cart feature, enabling users to easily add products to their cart.
- The website can be accessed here: https://cart-hive.cyclic.app/

Daily News Website using React and News API   **Period**: Jan 2023- Feb 2023

- Developed a news website that fetches news articles using the News API and presents them in a user-friendly interface using React as the front-end technology.

- Developed the user interface for the news website using React class-based components, along-with features for sorting and filtering news articles based on categories and sources in real time.

- Link to project repository: https://github.com/Harsh1197/NewsScoop.git

Email Automation, Analytics and Visualization   **Period**: Jan 2020 -Feb 2020

- 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.

Vehicle Theft Detection and Remote Engine Locking   **Period:** Nov 2019 -Dec 2019

- 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.

TECHNICAL SKILLS

- **Programming Languages:** C**,** JAVA,Python, Swift

- **Programming Experience:** 2+ years in JAVA and 1+ year in Python and C

- **Web Programming Technologies:** Html5, CSS3, JavaScript, ReactJS, Node Express

- **Database Management Systems**: SQL and MongoDB

- **Automation Frameworks and Libraries:** Junit**,** Selenium, Silk4j, Cucumber BDD, Maven, TestNG, Jenkins

- **Tools:** MATLAB, Xcode, Eclipse, IntelliJ Idea, Visual Studio, MongoDB Compass, SoapUI, 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.