RUCHI NIWALKAR

31 Saint Germain Street, Boston, MA 02115 | (857) 452-2317 | niwalkar.r@northeastern.edu |
linkedin.com/in/ruchiniwalkar

EDUCATION

Northeastern University, Boston, MA   **Dec 2020**
Master of Science in Information Systems

University of Mumbai, Mumbai, India   **May 2015**
Bachelor of Engineering in Electronics

TECHNICAL SKILLS

Programming Languages:	Java, C#, JavaScript, Python(basics)
Frameworks:	SpringBoot, Hibernate, J2EE (Spring MVC), Selenium, TestNG, JUnit, Page Object Model, Java Swing
Tools and Version Control:	Eclipse, JIRA, Git, Bitbucket, JUnit, Jenkins, Postman, CircleCI, Microsoft TFS
Web Technologies:	HTML, CSS, Angular, Node.js, JSON, React, RESTful API, Servlets, JSP
Databases:	MySQL, MongoDB, Oracle, Redis

PROFESSIONAL EXPERIENCE

Philips Healthcare - Software Engineer Co-op, Andover, MA   **Jun 2019 - Dec 2019**
- Developed automation scripts using specflow framework in C# to bind **BDD** (Behavior Driven Development) test scenarios to verify and validate Patient Monitoring Products, saving 100-person hours/week
- Automated code in **C#** for Auto-ADT features and created **Gherkins** for Protocol Watch and Argus Optical Sensor
- Enhanced existing code to reduce test execution time and increase pass rate in Nightly Build by 40%
- Performed code reviews and debugged existing code to ensure clean and efficient code policy

BDO LLP India - Senior Software Engineer, Mumbai, India   **Mar 2018 - Jul 2018**
- Designed **Java** based **TestNG** automation framework for financial web application using **Selenium** and Page Object Model
- Developed and executed automation scripts which improved accuracy and efficiency, **reducing test time by 60%**
- Participated in Agile workflow to ensure bug free application by logging defects in **Jira,** which enhanced user experience of application
- Mentored and provided one to one automation training to 3 manual testers

Tech Mahindra - Software Engineer, Pune, India   **Nov 2015 - Mar 2018**
- Created automation test scripts of telecom applications using **Selenium** WebDriver, improving automation extent from 10% to 70%
- Implemented Java **Object Oriented Programming** concepts to create functions required for the automation scripts
- Involved in utilizing version control tools like SVN, build tools like **Maven** and CI tools such as **Jenkins**

ACADEMIC PROJECTS

Shopping List (Personal Project: React, Redux, MondgoDB, Node.js, Express.js**)**   **Aug 2020**
- Created a simple shopping list app to add and delete grocery items with MERN stack along with **Redux** for state management
- Implemented login and access control with JWT authentication for backend using **Node**.js & Express.js

Bill Tracking System on AWS Cloud (SpringBoot, Ubuntu, CircleCI, NameCheap, Postman, Jmeter, Git**)**   **Apr 2020**
- Developed **Spring Boot** web application to be deployed on AWS with user authorization for specified Restful API's
- Generated an AWS **CloudFormation** template to create infrastructure for AWS services like EC2, S3, RDS, DynamoDB, Security Groups, CloudWatch, IAM, AWS Lambda, SNS, Auto-Scaling, DNS and performed load testing using JMeter
- Established a delivery (**CI/CD**) pipeline using **CircleCI**, Git and AWS Code Deploy

Rest API Development for Medical Plans (SpringBoot, ElasticSearch, Redis, Rest API, Kibana**)**   **Dec 2019**
- Created **RESTful** web services for company's medical plans using Java and Redis cache storage to perform CRUD operations
- Utilized **Kibana** Server for full text searching of indexed documents in **Elastic Search**, thus improving performance

Online Library Management (Hibernate, Spring MVC, Java, MySQL**)**   **Apr 2018**
- Engineered a **Spring** MVC and **Hibernate ORM** based web application allowing members to issue and return books at a library using Bootstrap, HTML, CSS and MySQL database
- Provided two role-based access control for library admin and members, where an admin can add, update or delete books in database

StartUp for StartUps (Java Swing**)**   **Dec 2018**
- Developed **Java Swing** application which allows startups to communicate with various teams using **singleton** design pattern and DB4O utility for data storage
- Incorporated Eco-system model using object-oriented design (**OOD**) to build hierarchy of multiple models alongside integrating PDF encryption and email notification functionality

Handout Donations (Angular, Nodejs, MongoDb**)**   **Dec 2018**
- Designed a web application that provides an easy way for the user to donate money using **Angular** MEAN stack and implemented PayPal payment gateways as an additional feature
- Integrated the application with **RESTful** endpoints and session management using Node.js & **Express.js**