DHEERAJ KUMAR MOHAN KUMAR

Irvine, CA | (949)-279-7745| dmohanku@uci.edu | LinkedIn | git_link

EDUCATION

Master of Software Engineering Dec. 2023

University of California (UCI), Irvine, United States of America

Courses: Data Structures, Algorithms, Data Base Programming, GUI, Web Programming, Concurrent Programming, Dist. Software Architecture, Software testing and debugging, Programming styles.

Bachelor of Engineering in Electronics and Communication Engineering July. 2019

National Institute of Engineering (NIE), Mysore, India (GPA - 3.6)

Courses: Object Oriented Programming, Software Engineering, Operating Systems, Database, C++, DSA, Java, Neural Networks, Network security, Communication Networks, Artificial Intelligence.

TECHNICAL SKILLS

Languages/Frameworks:	Java, C, C++, Spring Boot (beginner), Selenium, Cucumber, HTML5, CSS3, Python (beginner)
Databases:	MySQL, MongoDB (beginner)
Others:	Git, Test plan creation, Jenkins, Kubernetes (beginner), Docker (beginner), JUnit, Mockito.

EXPERIENCE

OneTrust Privacy Management Software, Bangalore, India July. 2019 – Aug. 2022

Software Development Engineer in Test (SDET)

Technologies: Java, Selenium, Cucumber, Jenkins, Kubernetes (beginner), Docker (beginner), Git.

- Mechanized the business cycles of a notable Venture client of OneTrust in collaboration with developers and dev operations.
- Supervised maintaining and writing test scripts for two of the OneTrust modules. Used Java, Selenium, and Cucumber to write the main test codes. Wrote and optimized test cases to minimize manual testing and maintained 3000 test cases with consistent pass rate through thorough approaches as sole SDET on the team.
- Revamped testing efficiency of whole regression suite from 90 to 98% on each Jenkins regression run.

Software Development Engineer in Test (SDET), Intern Jan. 2019 – Mar. 2019

- Designed and put together test scripts for a OneTrust module, earning management's appreciation. Covered/automated the most test cases during the internship time.

RELAVANT ENGINEERING PROJECTS

Testing and debugging of Jenkins (git_link) Jan. 2023 – Mar. 2023

(JUnit, Mockito, Jenkins, Code coverage, dependency injection, Static analysis)

- Implemented new Junit test cases to the open-source Jenkins project. Analysed the current code coverage and improved it by at least 60 lines of Code. Performed functional and structural testing methodologies over the source code.
- Introduced mocking and dependency injection testing into the existing test suite. Demonstrated how testing can be made easier by following certain coding conventions by use of SpotBugs and CheckStyle.

Analysis of Telegram android app architecture (git_link) Jan. 2023 – Mar. 2023

- Visualized the MVVM architectural pattern used in the Telegram app.
- Inspected the whole telegram app source code and 144 UI components and came up with a consolidated architecture for the main feature of telegram app.

Adding Service Functionalities to JSON.ORG Code Base (git_link) Jan. 2023 – Mar. 2023

(Junit, Advanced Java, Application Programming Interfaces)

- Enhanced the current xml to json parser method. Customized the existing method to make it responsive to a method call, streaming and asynchronous approaches.
- Utilized accessible java interfaces like Functional, Spliterator and ExecutorService to carry out this multistage project.

Security in Mining July. 2018 – Jun. 2019

(Python, PLX-DAQ, MU, NodeMCU, DHT22, CO detector)

- Aimed to keep mining workers safe by taking immediate actions based on sensed and monitored data. Engineered this Electronics and CS integrated prototype project in a team of four to overcome dangerous conditions in mining areas. Achieved an accuracy of 72% when simulated in the resembling conditions.

Project Organisation System Feb. 2018 – May. 2018

(MySQL, PHP for connecting to the server phpMyAdmin, HTML for GUI, and the Xampp server local host.)

- Built a system using MySQL to store universities data in the central repository that can be accessed by all students and the faculty.
- Devised to improve limitations in the existing system and save the manpower required to maintain hard copies of project records in the electronics department.