Shahnaz Shariff

🏠 Kingston, ON

+1-(343)-333-0495 📞
shahnazmshariff@gmail.com ✉
linkedin.com/in/shahnazmshariff 💼
github.com/shahnazmshariff 🐙

Self-motivated, curious and passionate about test automation & performance testing

EDUCATION

QUEEN'S UNIVERSITY *Kingston, ON*
Master of Science in Computing 4.12/4.3   *Feb-2019*

COLLEGE OF ENGINEERING, GUINDY (Anna University) *India*
Bachelor of Technology in Information Technology 8.42/10   *May-2016*

TECHNICAL SKILLS

Programming Languages: (proficient): Python, R, SQL (familiar): Java JavaScript, JQuery, C/C++, CSS, NoSQL
Tools & Utilities: (proficient): Selenium, Postman, Git, Jira, Bash, Sysstat (familiar): Jmeter, TestNG, Docker, Neo4j, Gephi

RESEARCH EXPERIENCE

GRADUATE RESEARCH ASSISTANT, *Software Analysis and Intelligence Lab, Kingston*   *July 2017 – Present*
• Developed an approach to improve the efficiency of Selenium-based load tests to maximize the number of clients that can run on a single load test machine
• Implemented a framework to identify performance critical Selenium commands by leveraging semaphores in multithreading
• Analysed the performance of the system under load by varying the parameters of test and Application Under Test (AUT)
• Identified the correlation between DOM size, presence of images in web applications with error rates in Selenium tests
• Performance comparisons (CPU & memory) across different types of GUI components in Selenium-based load tests
• Followed best test design practices while developing Selenium scripts for an open source mail client
• Performed a literature survey on the recent methods in load, performance and stress tests in large-scale software systems
• Performed an empirical study of Selenium-based posts on Stack Overflow to study the challenges in writing Selenium code

UNDERGRADUATE THESIS, *College of Engineering, Guindy (Anna University), India*   *July 2015-May 2016*
• Implemented a search engine using Apache Lucene to retrieve documents across Indian scripts when search queries are in more than one Indian script
• Developed several heuristics to tackle the main challenges in Multi Script Information Retrieval such as spelling variations, non-trivial term matching, result presentation and language identification

RESEARCH ASSISTANT, *Indian Institute of Information Technology D&M, India*   *May 2014- June 2014*
• Explored data mining algorithms and applied Association Rule Mining (Apriori) on Pharmacovigilance dataset

WORK EXPERIENCE

GRADUATE TEACHING ASSISTANT, *School of Computing, Queen's University*   *Jan 2018 - Dec 2018*
• Taught essential database concepts to students and assisted them in configuring NOSQL DB such as MongoDB & Neo4J
• Responsible for grading assignments and projects on Relational Algebra, Relational DB and SQL

SOFTWARE DEVELOPER, *Galvanize Test Prep, India*   *July 2016 - June 2017*
• Developed an application to automate the process of adding leads to Pipedrive & integrated with AWS (S3) to store results
• Independently developed custom web dashboards for instructors, admin and students using Django and Postgres
• Played a crucial role in revamping the software stack and brainstormed with the team to effectively design the DB schema
• Pinpointed and analysed the reasons for data inconsistency across multiple data sources
• Strictly adhered to the Test Driven Development process and used GitLab for version control
• Participated in daily stand-ups, sprint planning and sprint retrospective meetings

DATA SCIENCE INTERN, *Tata Consulting Services, India*   *May 2015 – July 2015*
• Curated a dataset of 100,000 posts from the TCS's social networking site & classified it based on the language of the posts
• Generated & analyzed graphs using Python to understand the relationships among entities (employees)