

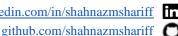
220 Victoria St, Toronto, ON



shahnazmshariff@gmail.com



linkedin.com/in/shahnazmshariff in



Quality centric software developer with a strong background in backend development, data analysis, cloud services, APIs and parallel processing

## TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, R, PHP, SQL

Shahnaz Shariff

Tools & Utilities: (proficient): Git, Angular, Django, Flask, ELK Stack, AWS, Bash (Linux), Selenium, Cypress, unittest, Jira (familiar): Docker, GraphQL, Appium

## WORK EXPERIENCE —

FULL STACK DEVELOPER, Wilcompute Systems Group, Toronto, ON

April 2019 - Present

- Developed complex features for supply chain management and CRM (Angular, Flask & Postgres)
- Created **data scripts** to simulate real user flows for facilitating client demos (Python)
- Conducted brainstorming sessions with the team for designing APIs and DB schemas
- Responsible for the maintenance and the optimization of **CI/CD pipelines** (Bitbucket)
- Led the **testing practices** and ensured sufficient test coverage (Cypress)
- Mentored interns to do thorough peer reviews and write effective tests
- · Actively involved in **product brainstorming**, generating traceability matrix & maintaining documentation
- Incorporated **customer feedback** into the system at the end of the UAT phase

RESEARCH ASSISTANT, Software Analysis and Intelligence Lab, Kingston, ON

July 2017 – Mar 2019

- Analyzed the **performance of the load driver** by varying the parameters of test and Application Under Test (AUT)
- Performance comparisons (CPU & memory) across different types of GUI components in Selenium-based load tests
- Designed and implemented a test scheduler based on the MMB3 benchmark to test the performance of mail servers
- Built a thread-synchronization framework in Python that seamlessly launches browsers and displays to execute load tests
- Improved the efficiency of Selenium-based load tests to increase the number of clients that can run on a single machine by 20%
- Implemented a framework to identify performance critical Selenium commands by using semaphores in multithreading
- Identified the correlation between DOM size, presence of images in web applications with error rates in Selenium tests

SOFTWARE DEVELOPER, Galvanize Test Prep (EdTech), India

July 2016 - June 2017

- Developed a web application using Diango to automate the data management workflow using AWS (S3) for intermediate data storage and improved the efficiency of existing process by 40%
- Independently developed web dashboards with visualizations to show real-time analytics for internal employees
- Played a crucial role in **revamping the software stack** from Drupal to Django
- Discovered and analyzed the reasons for data inconsistency across multiple data sources (Logstash, Backend DB & Mixpanel)
- Strictly adhered to the **test-driven development** process and used **GitLab** for version control
- Collaborated with QAs to identify and resolve high priority issues
- Actively involved in agile scrum activities like daily stand-ups, sprint planning, sprint retrospective meetings

DATA SCIENCE INTERN, Tata Consulting Services, India

*May* 2015 – *July* 2015

- Curated a dataset of 100,000 posts by scraping TCS's social networking site & categorized it based on the language of the posts
- Data visualization using Python to understand the dataset and dependencies amongst the data points

## - PUBLICATIONS

IMPROVING THE TESTING EFFICIENCY OF SELENIUM-BASED LOAD TESTS

May-2019

- · Authors: Shahnaz Shariff, Heng Li, Cor-Paul Bezemer, Ahmed E. Hassan, Thanh Nguyen and Parminder Flora
- Venue International Conference on Software Engineering (ICSE), Acceptance rate 35%

- EDUCATION -

QUEEN'S UNIVERSITY, Kingston, ON Master of Science in Computing 4.12/4.3

Feb-2019