


# Shahnaz Shariff

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

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## TECHNICAL SKILLS

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

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

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## 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 **Django** 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

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## 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%

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## 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*