

# K-M SAMIUL HAQUE

SOFTWARE ENGINEER

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## EMPLOYMENT

**RBC, Toronto, Canada**

*Software Engineer, May 2018 - Aug. 2018*

- Implemented Machine Learning into the DevOps pipeline by developing a scalable, concurrent Slack chatbot(ChatOps) to automate the containerization, monitoring, reporting, and orchestration of in-production micro-services. Saving an estimated 20 hours per microservice/week in deployment time to production. Used Python, ArangoDB, Redis, Jenkins, RASA NLP, Vault and IBM Urban code.
- Created integrations for various DevOps tools such as Docker, Kubernetes, Ansible, OpenShift, Pivotal Cloud Foundry, Kibana and Elasticsearch to ensure secure deployment, metrics reporting and horizontal pod scaling of in-production microservices, all from Slack.
- Created Jenkins library plugins to migrate and deploy legacy Java microservices to IBM z/OS while encapsulating build and deployment logic.

**University of Toronto, Toronto, Canada**

*Full-Stack Developer (Work-Study Program),  
Sept. 2017 - Feb. 2018*

- Developed a scalable web application using Django, Bootstrap, jQuery, Nginx, and PostgreSQL for tracking employee hours and enrollment trends for several departments, with real-time updates for concurrent operation by multiple users using Django-Channels, Redis and Web-Sockets.
- Developed a REST API for calculating employee hours and for generating visualization for long-term trends using Chart.js.

**RBC, Toronto, Canada**

*QA Automation Analyst, May 2017 - Aug. 2017*

- Developed a web application for concurrent execution, viewing, documentation, and logging of automated scripts with real-time data analytics using Django, MongoDB, Django-Channels, Redis, Bootstrap, jQuery, Nginx, and Jenkins. Saving the department \$100,000+ per year, while reducing execution time by 80%.
- Responsible for creating automated test cases via Python scripting and the Selenium library.

**Kabita Inc., New York, USA**

*Back-end Developer, May 2016 - Aug. 2016*

- Developed an e-commerce CRUD application using Bootstrap, Django, Nginx, and MongoDB.
- Containerized application using Docker to ensure rapid deployment.

## SKILLS

**LANGUAGES:** Java, Python, C, C++, C#, JavaScript, Node.js, CSS3, HTML5

**FRAMEWORKS:** Django, Flask, Spring, Express.js, Bootstrap, Electron, AngularJS, Android

**DATABASES:** MongoDB, MySQL, PostgreSQL, SQLite, ArangoDB

**SERVERS:** Nginx, Apache, IIS

**DEVOPS:** Kubernetes, Docker, Ansible, Jenkins, AWS, OpenShift, IBM Bluemix, Hashicorp Vault, Elasticsearch, Kibana, Logstash, Redis, RabbitMQ, IBM Urban Code, SonarQube

## EDUCATION

**University of Toronto**

HBSc Statistics 2020

Sept. 2015 - Current

## PROJECTS

**ETHUofT - CreatorsUnchained** Mar. 2018 - Mar. 2018

- Built a platform based on the Ethereum Blockchain using Solidity to bridge the gap between content creators and advertisers by making smart contracts to ensure fair transactions while protecting both parties.
- Created a karma system to devalue and restrict creators and advertisers who do not hold up their end of the bargain.
- <https://git.io/fSsMJ>

**UofT Hacks 4 - MirrML**

Jan. 2017 - Jan. 2017

- Developed a web application using the Flask web framework and the Clarifai neural network based image recognition API to identify a users style of clothing.
- Built a custom web scraper to train the Clarifai machine learning model, allowing the application to identify the users' style of clothing after only 6 hours of training.
- <https://git.io/fSsMU>

**Ultralux - UofT Hacks 3**

Jan. 2016 - Jan. 2016

- Built an IoT based early warning system that uses the Twitter API, Android Camera API and a laser array modulated by a raspberry pi to create an over the air optical mesh network for data transmissions over large distances.
- <https://git.io/fSsMt>

**LendR - TD FinnHacks**

Nov. 2016 - Nov. 2017

- Created a Fintech IoT based Android application, that uses NFC technology to microfinance friends for small purchases with a single tap, and a score based system to reward users who pay back their loans on time, reducing loan defaulting.
- <https://git.io/fSsMY>