

K-M SAMIUL HAQUE

SOFTWARE DEVELOPER

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EMPLOYMENT

Royal Bank of Canada Toronto, Canada
Site Reliability Engineer May 2019 - Aug. 2019

- Created a predictive **Machine Learning** based **SRE pipeline** for making both legacy and internal cloud based applications more resilient while reducing toil and time to recovery. Used **Java, Go, Elastic stack, Dynatrace Managed, MoogSoft, Kafka, IBM CDP for Mainframe, RedHat OpenShift, Pivotal Cloud Foundry** and **Ansible**.
- Developed a completely private intelligent war room using **Raspberry Pi, Python, Snips, Pagerduty, Moogsoft, Elasticsearch** and **Service-Now** to reduce outage times in production by providing production engineers possible solution vectors from similar incidents in the past.

Royal Bank of Canada Toronto, Canada
Software Developer Sept. 2018 - Apr. 2019

- Architected a production ready framework for developing websocket based **slackbots** as **cloud native** pub-sub services which can horizontally scale with increasing message throughput without duplication. Used **Go, RabbitMQ, Python** and **Pivotal Cloud Foundry**.
- Developed a enterprise ready high performance **API gateway**, allowing rapid slackbot development. Used **Java, Spring Boot, Netflix OSS**, and **React**.

Royal Bank of Canada Toronto, Canada
Software Developer Intern May 2018 - Aug. 2018

- Implemented **ChatOps** into the **DevOps** pipeline by developing a scalable **Slackbot**, saving an estimated 20 hours per **microservice** per week in deployment time to production.
- Used **Python, MongoDB, Redis, RASA NLU, Hashicorp Vault, Docker, OpenShift**, and **IBM Urban code deploy**.

Royal Bank of Canada Toronto, Canada
Quality Engineer Intern May 2017 - Aug. 2017

- Developed a web application to run automation scripts with real-time data analytics, saving the department **\$100,000+ per year**, while reducing execution time by 80%.
- Used **Python, Django, MongoDB, Redis, Bootstrap, jQuery, Nginx**, and **Jenkins**.

University of Toronto Toronto, Canada
Full-Stack Developer (work-study) Sept. 2017 - Feb. 2018

- Developed a web application for the history department to track course enrollment trends.
- Used **Python, Django, Bootstrap, Redis, jQuery, Nginx, Chart.js** and **PostgreSQL**.

SKILLS

LANGUAGES: Java, Go, Python, C#, C, JavaScript, CSS3, HTML5

FRAMEWORKS: Django, Spring Boot, Flask, ASP.NET Core, React, Gin, Express.js, Bootstrap, Electron, Android

DATABASES: MongoDB, MySQL, PostgreSQL, SQLite, ArangoDB

SERVERS: Nginx, Apache, IIS

DEVOPS: Kubernetes, Docker, RabbitMQ, Redis, Jenkins, Ansible, Hashicorp Vault, Elasticsearch, Kibana, Logstash, Openshift, GCP, AWS, Pivotal Cloud Foundry, IBM Urban Code, SonarQube

EDUCATION

University of Toronto Sept. 2015 - Current
HSc Statistics 2020

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 restrict creators and advertisers who do not hold up their end of the contract.

• <https://git.io/fSsMJ>

UofT Hacks 4 - MirrML Jan. 2017 - Jan. 2017

- Developed a web application using the **Flask** web framework and the **Clarifai** image recognition API to identify a user's style of clothing.
- Built a custom web scraper using **Python** to train the Clarifai machine learning model, allowing the application to identify the user's clothing style 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 **Python, Twitter API, Android Camera API** and a **Raspberry PI** to create an over the air laser 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>