Mohaimen Khan

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Education

Bachelor of Applied Science, University of Toronto   **Expected Graduation: 2020**

Major: Computer Engineering

Awards: Vern Gomes Memorial Award for Academics, President's Entrance Scholarship

Technical Skills

Programming: C, C++, Python, JavaScript, NodeJS, GraphQL, HTML5, CSS

Frameworks: Ruby-on-Rails, React.js, Express.js

Database: PostgreSQL, MongoDB

Applications: AWS-EC2, Docker, Jenkins, MATLAB, Arduino

Employment History

Software Engineering Co-Op, TELUS Intelligent Network Analytics | TELUS   **Jan, 2019 - Present**

- Implemented an API on the backend of a smart application using Express.js, MongoDB and MVC framework to monitor data and analyze network failure over time, which reduced an estimated loss of $100,000 per year.
- Designed a network health monitoring dashboard using React.js to display analytics on TELUS services.
- Developed a feature on NaaS service API to upgrade virtual gateways using python VSPK module and multithreading, allowing network engineers to upgrade 100 virtual routers in 3 minutes

Software Engineering Intern, Build and Network Automation | BlueCat Networks Inc.   **May, 2018 - Dec, 2018**

- Developed a python module using Boto-3 SDK on AWS-EC2 service, which allowed deployment of BlueCat Address Manager on 3 separate cloud platforms and helped covering 80% of cross-platform testing.
- Implemented API wrappers for VMware vSphere API using python, which helped to develop an internal tool to deploy virtual machines from OVAs, create and clone VM templates, and manage datastores.
- Designed a method to automate the process of migrating databases for test case execution, which reduced the test case migration time from 4 hours to 15 minute.

Personal Projects

Full Stack Web Developer, Engineering | University of Toronto   **April, 2018 - Sept, 2018**

- Created a website using Ruby-on-Rails, bootstrap templating and PostgreSQL, to incorporate registration, scheduling and logistics for 1000 incoming engineering students for frosh week.
- Used Stripe API to securely collect payments from ticket sales for frosh-week registration to fund all events and logistics, which is estimated to be a total of $90,000.

Artist Personality and Song Analyzer | Hack the North, Hack the 6ix   **2017**

- Created a web application to analyze artist personality through their tweets using Twitter API and IBM Watson, which provided artists with a better chance of collaboration with top 20% similar minded artists in industry.
- Used pre-existing supervised machine learning models with linear regression on a Free Music Archive dataset, which helped predicting the popularity of songs with less than 2% error.

Academic Projects

- **Multifactor Authenticator using HMAC-HOTP and TOTP** | University of Toronto   **2018**
- **Operating System abstractions using OS/161** | University of Toronto   **2017**
- **Custom Geographical Information System** | University of Toronto   **2016**