

Ali Niaki

10 Leora Court, Richmond Hill, Ontario, Canada

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- Recent **Computer Security** graduate with over three years of experience in developing REST APIs using Java and Spring Boot
- Enthusiastic about and experienced in **software architecture**, **DevOps**, application security, authentication, cryptography
 - Co-founder of Tread2Go (tread2go.com)

Skills & Concepts

Security	Cryptography, Authentication, JWT, Spring Security , Network Security, SSL , OAuth2
Languages	Java , TypeScript, PHP, JavaScript, SQL , Python, Eiffel, C, C++, SCSS, HTML, CSS
Frameworks	Spring MVC , Spring Boot , Symphony, Angular, RabbitMQ , jQuery (lib)
DevOps	Amplify , Maven , Docker , Kubernetes, Jenkins
AWS	Amplify , Cognito , BeansTalk , S3 , EC2 , ECS , RDS , SES , Route 53
Other	REST API , Microservices , Linux , Software Architecture , Multithreading, Synchronization, PWA, Algorithm Optimization

Education

B.Sc. Spec. Hons. Computer Security

Sep. 2015 - Apr. 2020

YORK UNIVERSITY

North York, Ontario, CA

- Member of Dean's Honour Roll (GPA of **7.38** out of 9)
- Achieved Chair's Honour Roll in Mathematics and Statistics

Sep. 2015 - Apr. 2016

Work Experience

Computer Security Research Assistant

Jan. 2020 - Current

YORK UNIVERSITY

North York, Ontario, CA

- Malwareless Web Analytics Pollution Tools Analysis and Development
 - Evaluated overall feasibility and effectiveness of conducting successful malwareless attacks.
 - Developed new **multithreaded MWAP attack tool** (github.com/saaniaki/eloki) in **Java** and **Maven** using HtmlUnit and Selenium to precisely assess **Google Analytics** and **AWStats** vulnerability to fake requests and successfully manipulate analytical data.
 - Developed feature to bypass known bot-detecting tools (**Google reCAPTCHA v3**).

Co-founder & CTO

Jun. 2019 - Jun. 2020

TREAD2GO INC.

Richmond Hill, Ontario, CA

- Architected** and developed mini ERP **REST API** using **Spring Boot**, **Spring Cloud** and deployed on **AWS** Beanstalk.
 - Highly **scalable** and convertible to **microservices**.
 - Significantly **Minimized costs** by automatically scheduling orders, managing resources and optimizing operations.
 - Integrated and used various third-party APIs to make the development process faster (Firebase, Google Cloud APIs, Nexmo, Stripe and more).
 - Applied best practices and design patterns to develop RBAC using **Spring Security**.
- Initiated Tread2Go Angular PWA and managed Angular front-end team using Trello, GitHub and Swagger; improved **interpersonal skills** to lead the project and **soft skills** to manage the stressful environment.
 - Repetitively converted business requirements to practical development plans, managed and executed development plans using the **defined budget**, enabled the company to continue working with **lean** and **agile** strategy.
- Deployed and maintained PWA and server-side services, orchestrated DNS, Security Policies, S3, EC2, Beanstalk, RDS and SES.
 - Applied and setup **DevOps** using Amplify and GitHub to **ease PWA delivery** significantly.

Information Security Analyst

Jan. 2019 - Apr. 2019

SCOTIABANK

Scarborough, Ontario, CA

- Developed a **robust cryptography** tool in Java without any framework to include the least number of external libraries (security requirement).
 - Compatible with **OpenSSL** standards, leverages from both **Symmetric** and **Asymmetric** cryptography and **digitally signs** documents.
- Analyzed application security (SAST & DAST) using Micro Focus Fortify, WebInspect and Blackduck.
- Integrated new security analysis and management software using Python to make analyzing static source code vulnerabilities **more efficient**.
 - Utilized Jira, Bitbucket and **Jenkins** to improve application delivery process.

Full Stack Developer

Jul. 2018 - Sep. 2018

CUBEANGLE INC.

Markham, Ontario, CA

- Architected** and developed Trade Dimension Dashboard using Angular and **Spring Boot** framework (**REST API**).
 - Cloud-based** web application to visualize trade data stored on **AWS** Redshift.
- Utilized cloud computing concepts and various **AWS** tools for deployment (**Cognito**, **RDS**, **API Gateway**, **Ubuntu** EC2, **Amplify**).

Web Application Developer

Apr. 2017 - May. 2018

VASTER INC.

North York, Ontario, CA

- Developed Vaster Dashboard using Angular and Symphony (**REST API**) to visualize data and support CRUD operations, deployed on **CentOS** EC2.
- Architected** and developed **Cloud-based** API of Novo Chat by adapting **Spring Boot**, **Spring Cloud** and **Docker**.
 - Implemented Discovery Service, Default Gateway, Configuration server and other **microservices**, deployed on multiple **Ubuntu** EC2 instances.
- Applied best security practices for authentication and **microservices** secure communication (**JWT**).