

Ali Niaki

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- Recent **Computer Security** graduate and **Co-founder** of Tread2Go (tread2go.com)
- Enthusiastic about and experienced in **software architecture**, **DevOps**, **application security**, **authentication**, **access control**, **cryptography**
- **Over three years** of experience in developing **REST APIs** using **Java** and **Spring Boot** and web applications using **Angular**, **TypeScript** and **JavaScript**

Skills & Concepts

Security	Cryptography, Authentication, JWT, Spring Security, Network Security, OAuth2
Languages	Java, TypeScript, PHP, JavaScript, SQL, Python, Eiffel, C, C++, SCSS, HTML, CSS
Frameworks	Spring MVC, Spring Boot, Symphony, Angular, Node.js, 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, Concurrency, Multithreading, Synchronization, Algorithm Optimization, RDB

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).