

10 Leora Court, Richmond Hill, Ontario, Canada

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Profile Summary _____

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

Skills & Concepts _____

Programming Java, TypeScript, PHP, JavaScript, Python, SQL, Eiffel, C, C++

Front-end PWA, Angular, Node.js, jQuery, SCSS, HTML, CSS

Back-end Spring MVC, Spring Boot, Symphony, REST API, Microservices, RabbitMQ, Algorithm Optimization, Node.js

AWS Cognito, BeansTalk, S3, EC2, ECS, RDS, SES, Route 53

DevOps Amplify, Maven, Docker, Kubernetes, Jenkins

Security Cryptography, Authentication, JWT, Spring Security, Network Security, OAuth2

Languages English, Persian

Other Software Architecture, Linux, Concurrency, Multithreading, Synchronization, Relational Database, CMS, Autodesk Maya

Education

B.Sc. Spec. Hons. Computer Security

Sep. 2015 - Apr. 2020

North York, Ontario, CA

YORK UNIVERSITY

- Member of Dean's Honour Roll (GPA of 7.38/9)
- Granted membership of Golden Key International Honour Society.
- Achieved Chair's Honour Roll in Mathematics and Statistics

Sep. 2015 - Apr. 2016

Work Experience _____

Computer Security Research Assistant

Jan. 2020 - Current
North York, Ontario, CA

YORK UNIVERSITY

• Malwareless Web Analytics Pollution Tools Analysis and Development

- Analyzed multiple attacking tools and headless browsers.
- Evaluated overall feasibility and effectiveness of conducting successful malwareless attacks.
- Developed new multithreaded MWAP attack tool (github.com/saaniaki/eloki) in Java 8 and Maven using HtmlUnit and Selenium to precisely assess Google Analytics and AWStats vulnerability to fake requests and successfully manipulate analytical data.
- Developed features to record genuine human-user generated mouse movement and actions using Selenium WebDriver 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 back-end services, orchestrated and managed DNS, Security Policies, S3, EC2, Beanstalk, RDS and SES.
 - Applied and setup DevOps and development pipelines using Amplify and GitHub to ease PWA delivery significantly.

JULY 28, 2020 ALI NIAKI · RÉSUMÉ 1

Jan. 2019 - Apr. 2019

SCOTIABANK Scarborough, Ontario, CA

- Developed a robust cryptography tool in Java 8 without any framework to include the least number of external libraries (security requirement).
 - Compatible with OpenSSL standards, leverages from both Symmetric and Asymmetric cryptography.
- Ensures data integrity via digital signature.
- · Analyzed application security:
 - Static Application Security Testing (SAST) via Micro Focus Fortify and Blackduck.
 - Dynamic Application Security Testing (DAST) via Micro Focus Fortify Webinspect.
- Integrated new security analysis and management software using Python to make analyzing static source code vulnerabilities more efficient.
 - Utilized Jira, Bitbucket and Jenkins to make application delivery process more efficient and robust.

Teaching Assistance Sep. 2018 - Dec. 2018

YORK UNIVERSITY

North York, Ontario, CA

Assisted in the "Programming for Mobile Computing" course by helping students learn about Java 8 and Android Development, which significantly contributed to improving interpersonal skills.

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 Symfony (REST API) in TypeScript and PHP 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).

Volunteer and Other Experience _____

Freelancer Web Developer

May. 2015 - Feb. 2017

IEM GMBH, SKYNET EDUCATION INC., SKYCHAIN, ETC.

Ontario, CA

- Designed and developed multiple websites using PHP based CMSes (Drupal, WordPress, Joomla).
 - Used jQuery to create more interactive web experiences.

Robotic Team Captain

Sep. 209 - Apr. 2013

DANESH JUNIOR AND HIGH SCHOOL

Tehran, Iran

- Led the Danesh High School team for three years.
 - Achieved the first place in two local tournaments.
 - Achieved an award in Iran Open Robo Cup 2012.
 - Taught high school-level robotics for almost a year.