Bardia Goharanpour

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- Computer Science at YorkU (graduated 2020) and Co-founder of Tread2Go (tread2go.com)
- Enthusiastic about and experienced in software architecture, application security, cryptography, authentication, access control and DevOps
- 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
Concepts	Microservices, Linux, Concurrency, Multithreading, Synchronization, Algorithm Optimization
Frameworks	Spring, Symphony, Angular, Node.js, RabbitMQ, jQuery (lib)
Build Systems	Maven, Docker, Kubernetes, Jenkins
DevOps	Amplify, Cognito, BeansTalk, S3, EC2, ECS, RDS, SES, Route 53

Education

B.Sc. Hons. Computer Science (Spec. 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 improved performance (80%) 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 3 to make analyzing static source code vulnerabilities more efficient and automated.
  - 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 Symfony (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).