

MARTIN PETKOV

Software/DevOps Engineer

(647) 388-1201

@ martin.p.petkov@gmail.com

http://www.martinpetkov.me/

Toronto, ON, Canada



SUMMARY

Software/DevOps Engineer with a passion for Computer Security, Cloud Technologies and Automation.

EXPERIENCE

Software/DevOps Engineer

Security Compass (SD Elements)

06/2016 - ongoing Toronto, ON, Canada

Security Compass is an application security and consulting firm

- Led creation of in-house tool to automate testing, packaging and delivery of core product, reducing lead time to 1 day from 1 week
- Greatly improved efficiency, testing capacity and simplicity of the main CI system (GitLab) through Docker and Ansible
- Implemented Review Apps, greatly speeding up release testing
- Automated and expanded security, feature, performance and lint tests
- Helped rewrite infrastructure automation tools and add functionality, including Puppet code and installer
- Contributed to the core product through features, bug fixes, code reviews, fixing security vulnerabilities and dogfooding
- Worked with JIRA, Confluence, GitLab, SAML, OneLogin and Zendesk
- Helped develop security training courses for Django and Node.js
- Gave multiple Lunch & Learns on CI/CD, Chat Bots and DEFCON

Junior Information Security Specialist

ISEA Group at UofT

10/2015 - 05/2016 Toronto, ON, Canada

- Wrote parsers for, and assisted in deploying, the in-house SIEM solution (ELK stack)
- Prepared Puppet configurations for CentOS servers
- Prepared guidelines and scripts for server hardening
- Automated deploy and management tasks with PowerShell

PCRS-C Software Developer

Department of Computer Science at UofT

06/2015 - 09/2015 Toronto, ON, Canada

- Full-stack development in Python + Django, SQL and JavaScript
- Implemented and tested core features of memory tracing and visualization in C programs
- Developed new features and supported the deployment of the Programming Classroom Resource System (PCRS)

CERTIFICATES

CISSP Associate

(ISC)²

Secure Software Practitioner - Mobile

(ISC)²

Security+

CompTIA

[Past] CCNA, CCNP, CCNA Security

Cisco

SKILLS

Computer Security Fundamentals



Scripting and Automation (Python, bash, PowerShell)



Python, Ruby, JS Development



Technical and Non-technical Communication



Knowledge of authentication technologies (OAuth, SAML, PKI, TOTP)



Git



EXPERIENCE

Undergraduate Teaching Assistant (6 terms)

Department of Computer Science at UofT

📅 02/2013 - 05/2016 📍 Toronto, ON, Canada

- 3 terms for Computer Organization
 - 2 for Functional Programming
 - 1 for Intro to Databases
 - Led labs in Racket, Haskell, Verilog and Hardware Design
 - Helped develop and grade assignments in RA, SQL and XQuery
 - Led several guest lectures on Assembly Programming and tutorial lectures on Functional Programming in Racket and Haskell
-

Software Developer Intern (Android)

Ultimate Software

📅 02/2015 - 06/2015 📍 Toronto, ON, Canada

Ultimate Software is a fully-SaaS cloud provider of HCM solutions

- Worked with Eclipse + Spring Tools Suite, Java, Android framework, GWT framework, Hibernate, JPA, and MSSQL and Oracle databases
 - Worked on server-side and Android components of TouchBase tablet
 - Completed internal training in security fundamentals and defense
-

Private Tutor - Computer Science

Private

📅 06/2015 - 04/2017 📍 Toronto, ON, Canada

- Tutored one high school student in introductory Java, software design and use of Git and GitHub
 - Tutored one first-year UofT student in beginner Python programming
-

EC Technology Assistant

Education Commons (EC), OISE

📅 10/2014 - 06/2015 📍 Toronto, ON, Canada

- Provided telephone, in-person and e-mail technical support
 - On-site assistance for computer lab, classroom technology and events
 - Helped resolve IT tickets and improve internal software systems
-

Software Developer (PEY)

Trapeze Group

📅 06/2013 - 09/2014 📍 Toronto, ON, Canada

Trapeze develops transportation software solutions

- Worked on backend business logic for the OPS product, and created reports using Crystal Reports
 - Worked with Visual C++ 2012, MSSQL, Oracle, JavaScript and XML
 - Followed Scrum methodology with JIRA for issue tracking and Subversion for version control
 - Performed code reviews with Fisheye+Crucible and developed documentation in Confluence
 - Used Bamboo for build automation and Continuous Integration
-

PROJECTS

Beehive SDN Framework - Network Visualization

📅 02/2016 - 05/2016

Research Project under Yashar Ganjali

- Implemented an app to visualize network dynamics based on SDN control events
 - Used Go, Meteor.js and MongoDB
-

SQL Visualizer (Research)

📅 06/2015 - 09/2015

Under Diane Horton and Andrew Petersen

- Designed and implemented an app to visualize and trace SQL queries
 - Paper published in RUCS undergrad journal
-

COURSES

[UofT ECE & UTM - Computer Security](#)

[UofT - Software Defined Networks](#)

[Coursera - Software Defined Networks](#)

[edX - DevOps: What, Why and How](#)

[UofT - Software Engineering](#)

[UofT - Advanced Computer Networks](#)

[UofT - Advanced Operating Systems](#)

[UofT - Advanced Databases](#)

EDUCATION

BSc. Computer Science Specialist

[University of Toronto, St. George](#)

📅 10/2011 - 06/2016

GPA

3.63 / 4.00
