

PETER ZHU

Software Developer

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EXPERIENCE

Privacy/Trust RnD Developer Intern

Shopify

- Contributed to kafka-scrubber, a Go project that obfuscates PII (personally identifiable information) from Kafka topics before data is placed in long term storage.
- Designed, prototyped, and implemented a security-oriented microservice platform called minerva-bot. This platform is architected in a component based Ruby on Rails architecture, allowing for loosely coupled components while decreasing development time. The bot performs various services for compliance purposes, along with automating tasks such as account permission requests and multi-factor authentication resets.

📅 May 2018 – August 2018

📍 Ottawa, ON

Security DevOps Engineer Intern

Shopify

- Worked with Ruby on Rails to fix security vulnerabilities in critical components of Shopify, including authentication and API.
- Rebooted an internal project at Shopify called push-scraper, which detects secrets (such as API keys/tokens, passwords, etc.) that get accidentally committed onto GitHub.

📅 June 2017 – September 2017

📍 Ottawa, ON

Contract Software Developer

Conlingo

- Contract software developer for a small startup in Ottawa.
- Responsible for developing backend (written in Java) and a frontend Android app.

📅 December 2016 – April 2017

📍 Ottawa, ON

PERSONAL PROJECTS

Computer Science Club Online Judge

Earl of March Secondary School

- Technologies: Ruby on Rails, Delayed::Job, Paperclip, Devise, Firejail (seccomp)
- Online judge used to automate judging of programming contests. Written for the Computer Science club, it was used for an inter school programming contest in February of 2017. The judge supports submissions in C++, Java, and Python.
- GitHub Link: <https://github.com/peterzhu2118/onlinejudge>
- Project Link: <http://onlinejudge.peterzhu.ca/>
(Username: test@test.com, password: testing)

📅 September 2016 – February 2017

📍 Ottawa, ON

EXTRACURRICULAR ACTIVITY

Computer Science Club, President

Earl of March S.S.

- President of High School programming club. Taught members basics of programming as well as competitive programming.

📅 September 2016 – June 2017

📍 Ottawa, ON

SKILLS

Ruby

Ruby on Rails

Sinatra

Sidekiq

Devise

MiniTest

RSpec

Python

Django

Flask

TensorFlow

Java

JavaServer Faces

JDBC

Android

SQL

MySQL

PostgreSQL

JavaScript

Electron

React

Go-lang

Sarama

Docker

Kubernetes

VMWare

Git

EDUCATION

🎓 B.Sc., Computer Science

University of Toronto

GPA: 3.86/4.0

📅 2017-2021

📍 Toronto, ON

AWARDS & CERTIFICATIONS

Canadian Computing Olympiad

Bronze Medallist

University of Waterloo

- Invited to the University of Waterloo as one of the top 30 contestants (of more than 3000) of the Canadian Computing Contest.

📅 May 2017

📍 Waterloo, ON

Oracle Certified Professional, Java

SE7 Programmer

Oracle Certifications

- License: 2400371090CPJSE7

📅 May 2016

📍 Ottawa, ON

Oracle Certified Associate, Java SE7

Programmer

Oracle Certifications

- License: 2400371090CAJSE7

📅 July 2015

📍 Ottawa, ON

CompTIA A+ ce

CompTIA

- License: 6VJSGELG1KQ4QRWL

📅 September 2015

📍 Ottawa, ON