

# Jonathan Tsang

## WORK EXPERIENCE

MAY 2018 - AUGUST 2018

Okta

### Software Engineer Intern

Software engineer working full stack in the front end and back end of admin and internal pages on the Admin Experience and Lifecycle Management team. Company is focused on providing identity management service, built for the cloud. Team focused on web development of user directories and internal web pages. Main tools were Java, Javascript, Spring, Backbone, Hibernate, MySQL.

JANUARY 2017 - APRIL 2017

SurfEasy

### QA Analyst

Developed automation tests for iOS in Java, using Appium iOS Driver and Selenium. Ran regression tests for VPNs made by SurfEasy on iOS, Android, Windows and Mac. Worked in an Agile Environment alongside developers to log and x bugs found in the software

## PUBLIC PROJECTS

OCTOBER 2017

MHacksX

### Investera Nodejs, WolframAlpha API, MixMax API

Won at MHacksX among over 1200 attendees for the best use of Wolfram API and MixMax API. Utilized Mixmax slash commands for stocks embedded in emails using Wolfram API; supports stocks data, stock comparisons, and date ranges in the graphs. Allowed data visualization in emails such as plotting graphs, cryptocurrency price embedding, and company descriptions using Coinbase API and Blackrock API.

2017

Personal Project 2017

### Microtransaction Simulator C#, Unity, GIMP

Published to the Steam Store in September 2017 with over 45,000 players and over 90% positive ratings. Developed a probability based game built on the saturated microtransaction market. Built using C#, Unity, and Steam Developer APIs and deployed to SteamWorks CDN.

MARCH 2018

HackPrinceton 2018 Winning Project

### What's on the Menu? Java, Android

Created a computer vision Android app that recognized text on a menu and showed photos of that dish from the restaurant. Developed the backend API call to Google Custom Search to get the image urls. Coded the app in Java and Android Studio

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🔗 github.com/jonathantsang

## EDUCATION

2014 - 2019

**University of Waterloo**

*Bachelor of Computer Science, minor in combinatorics*

## SOFTWARE SKILLS

GOOD LEVEL C++, Python, Javascript, C#, HTML, CSS, NodeJS, Git, Unity  
INTERMEDIATE Java, Spring, Backbone, JSP, Linux, Flask, Heroku, SQL  
BASIC LEVEL Go, Django, ARCore

## AWARDS

MHACKSX Best Use of Wolfram Alpha API and MixMax API  
ETHWATERLOO Storj API Prize  
HACKPRINCETON 2018 Most Sustainable Hack  
OKTA INTERN HACKATHON Most Creative Hack  
ADRENALAN Best .tech Domain

## COMPLETED COURSES

COURSES Cryptography, Algorithms, Operating Systems, Object-Oriented Software Development, Data Structures and Data Management

## CLUBS AND ACTIVITIES

2015-PRESENT **Waterloo Orientation Leader**  
*Frontline Leader, Pink Tie, Black Tie*  
2015-PRESENT **Federation of Students Food Bank Volunteer**  
*Attended shifts to distribute food to members of University of Waterloo community*  
2018-PRESENT **Waterloo Local ACM Contest Participant**  
*Participated in the University of Waterloo local ACM competitions*