

Ian Fox

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EDUCATION

University of Waterloo

Bachelor of Honours Computer Science GPA: 3.7/4.0

Waterloo, ON

Expected Graduation: June 2020

SKILLS

- Programming Languages: Golang, Python, C, C++, Javascript
- Technologies: Docker, Kubernetes

EXPERIENCE

Splunk Inc.

Software Engineering Co-op

San Jose, CA

Jan 2019 - Apr 2019

- Designed and developed integrations between GitLab CI and static code analysis tools, streamlining developer workflow.
- Built systems to automate tool deployments for the Product Security team.
- Created and delivered training on CI best practices.

Oath Inc.

Technical Intern

Sunnyvale, CA

Jan 2018 - Aug 2018

- Designed, implemented, and open sourced the yFuzz fuzzing orchestration tool.
- Developed a slack bot with Flask for a security engagement initiative encouraging employees to lock their computers.
- Conducted physical penetration tests and reconnaissance for Oath's red team.

Yahoo Inc.

Technical Intern

Sunnyvale, CA

May 2017 - Aug 2017

- Added a new authentication mechanism for the Screwdriver CD tool with Ember.js and Hapi.js.
- Developed a plugin to queue Screwdriver jobs with Redis, enabling more complex pipeline structure.

OpenText Corporation

Software Development Intern

Waterloo, ON

May 2016 - Aug 2016

- Fixed bugs and implemented new features in the OpenText Core desktop file sync application, using python and AngularJS.

OpenText Corporation

High School Intern

Waterloo, ON

Feb 2015 - Jun 2015

- Developed OpenText Core integration allowing users to connect to their Google account with OAuth and use Google Docs to edit their documents online.

PROJECTS

yFuzz

Mar 2018

- Tool to allow orchestration of parallel of fuzzing jobs with Docker and Kubernetes.
- Server and command line client written in Golang, offering authentication through mutual TLS and integration with Athenz, Yahoo's role-based authorization system.
- Continuous deployment with Yahoo's Screwdriver CD tool.

Hanabi

Jan 2017

- Online implementation of a board game, built using Flask.
- Automated testing with python unittest.