

Ian Fox

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EDUCATION

University of Waterloo

Bachelor of Honours Computer Science

Waterloo, ON

June 2020

SKILLS

- Programming Languages: Golang, Python, Java
- Technologies: Docker, Kubernetes

EXPERIENCE

Cognite AS.

Software Development Co-op

Oslo, NO

Sep 2019 - Dec 2019

- Implemented new authentication mechanism using Hashicorp's Vault.
- Fixed security vulnerabilities related to authorization.

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

High School Intern

Waterloo, ON

Feb 2015 - Jun 2015

- Created integration allowing OpenText Core files to be opened in Google Docs for online editing.

PROJECTS

Vault JWT Backend

Oct 2019

- JWT-signing plugin for Hashicorp's Vault tool, allowing JWTs to be signed without the private key ever leaving Vault.

yFuzz

Mar 2018

- Tool to allow orchestration of parallel of fuzzing jobs with Docker and Kubernetes.
- Server and CLI written in Go, offering authentication through mutual TLS and RBAC through Yahoo's Athenz.

ADDITIONAL

- Interests: Automation, Security, Reverse Engineering, Distributed Systems