

Ian Fox

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EDUCATION

University of Waterloo

Bachelor of Honours Computer Science GPA: 3.4/4.0

Waterloo, ON

June 2020

SKILLS

- Programming Languages: Python, Golang, Rust, C
- Technologies: Various Large Language Models and Large Multimodal Models, Kubernetes, Docker, Linux

EXPERIENCE

Omny Security

Security Researcher

Oslo, NO

Oct 2021 - Current

- Developed document parsing tools using OpenCV, GPT4V.
- Assessed and remedied vulnerabilities with Omny's LLM-based chat agent.
- Created demonstrations of simulated ICS environments and attacks against them.
- Wrote and delivered talks at DEFCON ICS Village, BSides Oslo, S4x2023.

Splunk

Cloud Security Engineer

Waterloo, CA

Jul 2020 - Sept 2021

- Developed and maintained automation for various security processes such as vulnerability scanning.
- Worked with stakeholders to plan and deliver enhancements to the vulnerability reporting process.
- Delivered webinar on using terraform to manage firewall rules with Signal Sciences

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, US

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, US

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, US

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, CA

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: Linux, ICS, Reverse Engineering, Supply Chain, Sandboxing