

## EDUCATION

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<b>Athabasca University</b> <i>Bachelor of Science, Computing and Information Systems</i>	Remote 2016 - Present
<b>University of Calgary</b> <i>Bachelor of Science, Computer Science</i>	Calgary, Alberta 2014 - 2016

## EXPERIENCE

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<b>Shopify</b> <i>Internal Security Developer</i>	Ottawa, Ontario June 2018 - Present
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- **Development:** Developed a Ruby on Rails application to handle authentication and authorization of internal systems. Running in-line for all requests handling upwards of 100 000 requests per minute, with a p99 response time of 10ms.
- **People Leadership & Mentoring:** Developed interns through both the regular intern stream, as well as part of [Shopify's Dev Degree program](#).
- **Technical Leadership:** Subject matter expert for internal and external authentication and authorization systems, led authorization team for the onboarding of regulated industries onto Shopify's platform.
- **Zero Trust:** Developed internal system to support a zero-trust security system for thousands of employees across dozens of countries.

<i>Internal Security Analyst</i>	October 2017 - May 2018
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- **Development:** Developed transparency application for employees to understand the data collected by Shopify's enterprise device management solution.
- **Device Security:** Led Device Security initiative to standardize threat models for employee devices and created device tiering model to support BYOD program.
- **Identity Security:** Overhauled an internal meta-identity management system that supported applications for which we did not have SSO support for (e.g. GitHub)

<b>Telus</b> <i>Security Analyst II</i>	Calgary, Alberta January 2017 - Sep 2017
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- **Development:** Developed automation systems for incident response, including a machine learning system for classifying and responding to internally-targeted phishing campaigns
- **Malware Reverse Engineering:** Reverse engineered malware targeted at Telus employees to determine capabilities, source, and target.

<i>Security Analyst I</i>	June 2015 - December 2016
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- **Incident Response:** Responded to and managed incidents relating to internal systems.

## PROJECTS

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All projects can be viewed at <https://www.nicktaylor.ca/projects>.

- **Sorting Algorithm Visualization:** A visualization tool for different sorting algorithms.
- **Stackless EVEmu:** A partial rewrite of the [EVEmu EVE Online server](#) written in Stackless Python, and based on reverse engineering of the EVE Online client.
- **Trawler:** A simple Python Flask application to help ingest and manage phishing reports for SOC teams.

## PUBLICATIONS

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<b>Making Technical Decisions</b> <i>Shopify Summit</i>	Ottawa, Ontario 2019
<b>Automating Malware Analysis</b> <i>BSides Calgary</i>	Calgary, Alberta 2017
<b>Reverse Engineering MMOs for Questionable Fun and No Profit</b> <i>c0wsec</i>	Calgary, Alberta 2017