Anthony Tam

SECURITY RESEARCH AND DEVELOPMENT

+1 (647) 786 8248 | hello@anthonyt.ca | www.anthonyt.ca | anthonytwh

Work Experience

Darktrace   *Toronto, Canada*

LEAD MODEL DEVELOPER   *May. 2020 - Present*

- Research and develop machine learning models to detect adversary activity in the network, cloud and SaaS platforms.
- Continually maintain over 950 models, improving fidelity of detections and reducing average FP/FN alerts by 25%.
- Develop and maintain analytical tools (fullstack) used to reveal statistical trends and malicious activity in global breach data.
- Researched classification methods to detect DNS Tunnelling hostnames with 98 percent accuracy and F1.
- Simulated cloud and network attack tools and tested malware against the detection system to improve capabilities.
- Development lead for Cloud and SaaS platform models (AWS, Azure, GCP, M365, GSuite, Salesforce, Okta, Zoom, Duo).

CYBER SECURITY ANALYST   *Nov. 2018 - Apr. 2020*

- Lead analyst in Canada and security Subject Matter Expert supporting strategic technical client engagements in North America.
- Performed threat hunting exercises on client environments, creating custom threat reports with detailed technical analysis.
- Investigated active compromises and live pen-tests in customer environemnts, compiling reports for engineers and executives.
- Maintainer of the Darktrace Python library, a light-weight wrapper library for simple implementation of the Darktrace API.
- Identified 50+ new IOCs for Darktrace threat intel database from threat hunting exercises and research.

CYBER SECURITY ENGINEER   *Sep. 2017 - Oct. 2018*

- Managed integrations and deployments of Darktrace system across Canada for network, virtual, and cloud environments.
- Traveled weekly to lead onsite technical integrations with security engineers, managers and executives.
- Developed internal SSH CLI tool to improve workflow, speed and security of accessing internal resources.
- Contributed to over 30% growth of the Canadian customer base from proof-of-value customer trials.

Zebra Technologies   *Missisaugua, Canada*

CATEGORY MANAGEMENT ANALYST   *May. 2016 - Aug. 2016*

- Developed a dynamic Excel (VBA) dashboard to automate monthly analysis reporting of vendor operational and financial risk.
- Led RFQ/RFP exercise with key vendors to reduce cost on tail-spend of global semiconductor component procurement.

Education

McMaster University   *Hamiltion, Canada*

B.ENG.MGT - BACHELOR OF MECHANICAL ENGINEERING AND MANAGEMENT   *Sept. 2012 - Apr. 2017*

- Five-year program incorporating engineering, business management, and multi-disciplinary projects.

Nanyang Technological University   *Singapore, Singapore*

INTERNAIONAL EXCHANGE PROGRAM   *Aug. 2014 - May. 2015*

- Study abroad for one year, integrating with the local culture and exploring many cultures across South East Asia.

Skills

Programming	Python, SQL, Javascript, Typescript, HTML5, CSS, LaTeX
Frameworks	Tensorflow, Keras, Scikit-learn, Pandas, Flask, NodeJS, ReactJS, AngularJS
Tools/Infra	AWS, Docker, Gitlab, Redis, PostgreSQL, Linux, Wireshark, Powershell, Kali Linux