Anthony Tam

SECURITY RESEARCH AND DEVELOPMENT

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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 queries using statistical and lexical features.
- 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, and multi-disciplinary projects.

Nanyang Technological University   *Singapore, Singapore*

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

- Study abroad for one year, exploring the local and neighbouring 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