Anthony Tam

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Work Experience

Darktrace *Toronto, Canada*

LEAD MODEL DEVELOPER *May. 2020 - Present*

- Lead development for Cloud (AWS, Azure, GCP) and SaaS (M365, GSuite, Salesforce, Okta) threat and detection models.
- Research and developed machine learning models to detect adversary activity in the network, cloud and SaaS platforms.
- Develop and maintained full-stack web based analytical tools used to identify trends and malicious activity in global breach data.
- Maintain over 900 models, improving fidelity of detections and reducing overall false positive/negative hits by over 30%.
- Research and implemented classification methods to detect DNS Tunnelling hostnames with 98 percent accuracy and F1.
- Simulated and tested malware, cloud and network attack tools against the system to improve detection capabilities.

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

- Performed threat hunting exercises on client environments, creating custom threat reports with technical analysis.
- Lead analyst in Canada and security Subject Matter Expert, supporting strategic technical client engagements in North America.
- 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.

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, Scikit-learn, Pandas, Flask, NodeJS, ReactJS, Angular JS
Tools/Infra: AWS, Docker, Gitlab, Redis, PostgreSQL, Linux, Kali Linux