

KOH SIXING

RESEARCH ASSISTANT

CONTACT



Singapore



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EDUCATION

Bachelor of Science (B.Sc) in Business Analytics

National University of Singapore

Aug 2020 - Dec 2023

**Diploma in Infocomm Security Management
(with Merit)**

Singapore Polytechnic

Apr 2014 - Apr 2017

CERTIFICATION

Organizational Systems Wireless Auditor

Wireless Auditing & Pentesting Certification

ThinkSECURE

Organizational Systems Security Analyst

Enterprise Security Certification

ThinkSECURE

Mobile Device Forensics

Certificate of Completion

Paraben Corporation

AWARDS

Top Students for Data Management & Visualization

National University of Singapore

SingTel Cybersecurity Cadet Scholarship

Singapore Polytechnic

Singapore Polytechnic Scholarship

Singapore Polytechnic

Director Honor Roll for AY2015/16

Singapore Polytechnic

WORK EXPERIENCE

Research Assistant

National University of Singapore

Jan 2024 - Present

- Undertake all duties from tenure as a Student Research Assistant
- Leverage on parallel programming and high performance computing to conduct grid search and hyper-parameter tuning to build Machine Learning (ML) models
- Perform exploratory data analysis (EDA) with numerical analysis, Natural Language Processing (NLP) techniques and sentiment analysis
- Guide junior team members on ML tasks or relevant analytics projects

Skills: *Python3, R, Jupyter Notebook, GitHub Actions, Qualtrics, NLTK, REST API*

Student Research Assistant

National University of Singapore

Sep 2023 - Nov 2023

- Read research papers to understand existing studies and possible further research
- Scraped data from relevant online sources and performed data cleaning
- Leveraged on GitHub Actions to schedule regular data scraping of online data
- Updated PI and Co-PI on findings

Skills: *Python3, Jupyter Notebook, GitHub Actions*

Business Analytics Intern

Development Bank of Singapore (DBS)

Jan 2023 - Jul 2023

- Scraped data from relevant sources of past and present employee reviews
- Performed data cleaning, processing and analyze the data using tools such as Excel, CDSW, Jupyter Notebook or NLP techniques
- Built multi-label text classification models to predict the labels based on the verbatims found in employee reviews. Models achieved at least 0.85 in F1-score
- Presented data in appropriate dashboards using visualization tools such as Excel, Tableau, PowerPoint

Skills: *Excel, Tableau, Qualtrics, Python3 or R, Jupyter Notebook, Cloudera Data Science Workbench (CDSW), Hugging Face*

Associate Research Engineer

Trustwave Holdings

Aug 2019 - Aug 2020

- Scraped data from relevant online sources of malware reports
- Assisted team members by scraping online data related to cybersecurity to build a corpus for their NLP model
- Built an ML model to predict the malware category based on the indicators present in reports. Model achieved an ROC AUC score of at least 0.88
- Developed a prototype that ingests and merges malware reports from different sources and categorizes the malware based on its indicators with the ML model

Skills: *Ubuntu, Python3, Jupyter Notebook, Plotly Dash, Scikit-Learn, MySQL, MongoDB*