

KOH SI XING

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EDUCATION

National University of Singapore (NUS)

Aug 2025 Onwards

Master of Science (M.Sc.) in Data Science and Machine Learning

- Incoming Academic Year 2025/26

National University of Singapore (NUS)

Aug 2020 - Dec 2023

Bachelor of Science (B.Sc. Hons.) in Business Analytics

- Honors: Honors (Distinction) - Second Class (Upper) Honors Equivalent
- Specialization in Financial Analytics

Singapore Polytechnic (SP)

Apr 2014 - Mar 2017

Diploma in Infocomm Security Management (with Merit)

- GPA: 3.83 / 4.00
- Specialization in Forensics Investigation

EXPERIENCE

Research Assistant

Jan 2024 - Present

National University of Singapore (NUS)

- Undertake all duties from my previous tenure as a student research assistant
- Replicate experiments on human-algorithm collaboration as requested by principal investigator (PI) and Co-PI
- Bulk create Qualtrics surveys using Qualtrics API to collect responses from participants
- Bulk create Prolific studies using Prolific API, linking to Qualtrics surveys and recruiting participants for experiments
- Perform data cleaning on the results collected from experiments or data scraping
- Perform Exploratory Data Analysis (EDA) with numerical analysis, Natural Language Processing (NLP) techniques, and sentiment analysis
- Leverage on parallel programming and high-performance computing (HPC) cluster to conduct grid search and hyper-parameter tuning when building Machine Learning (ML) models
- Guide junior team members on ML tasks or relevant analytics projects

Student Research Assistant

Sep 2023 - Nov 2023

National University of Singapore (NUS)

- 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

Business Analytics Intern

Jan 2023 - Jul 2023

The Development Bank of Singapore (DBS) Limited

- Gathered data from relevant sources of past and present employee reviews
- Performed data cleaning, processing and analyzing 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 an F1-score of at least 0.85
- Presented data using appropriate dashboards using visualization tools such as Excel, Tableau, PowerPoint
- Created survey using Qualtrics and use its in-built features to perform Data Analysis / Visualization

Associate Research Engineer

Aug 2019 - Aug 2020

Trustwave Holdings

- Collected 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 a Machine Learning model to predict the malware type 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. The prototype then categorizes the malware based on its indicators, leveraging on the Mitre Att&ck Framework

Cyber Security Intern / Associate Engineer

Sep 2016 - Jun 2017

Singapore Telecommunications (SingTel) Limited

- Conducted Proof-of-Concept on emerging cyber security technologies such as Cloud Access Security Brokers (CASB) and Deception Technologies
- Analyzed network traffic data and determined possible attack traffic.

Skills

- Programming Skills: Java, Python, R
- General IT Skills: Computer Networking, Database (SQL, MongoDB), Web Development, Git
- Data Science & ML: Scikit-learn, Imblearn, Tensorflow, Dplyr, HPC Cluster
- Cybersecurity: Kali Linux, REMnux SIFT

Awards

- Top Students for BT2102 Data Management and Visualization (Associated with NUS)
- SingTel Cybersecurity Cadet Scholarship (Associated with SP)
- Singapore Polytechnic Scholarship (Associated with SP)
- Director Honor Roll for AY2015/16 (Associated with SP)

Certifications

Financial Analytics Specialization

Certificate of Merit

National University of Singapore

Organizational Systems Wireless Auditor

Wireless Auditing & Pentesting Certification

ThinkSECURE

Organizational Systems Security Analyst

Enterprise Security Certification

ThinkSECURE

Higher Mathematics

Certificate of Completion

Singapore Polytechnic

Mobile Device Forensics

Certificate of Completion

Paraben Corporation