

Teoh Xiwen

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EDUCATION

Shanghai Jiao Tong University

Bachelor of Engineering in Computer Science & Technology

Recipient of Shanghai Municipal Government Scholarship (2019 – 2023)

Sep 2019 – Jun 2023

Shanghai, P.R. China

EXPERIENCE

Research Assistant

Security Research Lab, National University of Singapore

Sep 2023 – Present

Kent Ridge, Singapore

- Built a system with Node.js to evaluate the performance of 90 industrial and 2 academic phishing detectors against CAPTCHA-cloaked websites.
- Created an interactive demo with Flask for an LLM-enhanced phishing detection tool.
- Contributed to a GovTech TAICeN project by pre-processing more than 100k microservice logs with Python, Pandas, RegEx.

PROJECTS

EvoPhish | *Git, Docker, Kafka, ELK Stack*

Dec 2023 – Present

- Developing a threat-intelligence platform for phishing website detection.
- Leveraged Apache Kafka to process incoming domains at a rate of 160 – 180 per second.
- Utilized Node.js with Puppeteer for domain crawling, while using nginx for load-balancing crawl requests to remote headless browsers.
- Used Elasticsearch, Logstash, Kibana (ELK) to aggregate and visualize features of analyzed websites in real-time.

osuTransformer | *Git, Python, PyTorch, Numpy*

Oct 2022 – Sep 2023

- Developed an automatic game-level generator for the rhythm game *osu!*
- Trained T5 transformer model to take audio Mel spectrogram segments as input and outputs tokens that can be post-processed into a playable game level.

Full-Stack Online Bookstore | *Git, Spring, MySQL, React*

Jan 2021 – Jun 2021

- Implemented REST API for authentication, books, shopping carts, orders, user management and analytics.
- Used Controller-Service-Repository architecture for backend and adopted dependency injection.
- Modelled relational data and used data transfer objects (DTO) to move data between backend layers.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL, Java

Web Frameworks: React, Express, Flask, Spring Boot

Data Science: PyTorch, Numpy w/ Pandas, Matplotlib, Jupyter Notebook

Data Engineering: Kafka, PostgreSQL, MongoDB, Elasticsearch, LogStash, Kibana

Developer Tools: Git, Docker

MISCELLANEOUS

Languages: English, Chinese, Malay

Nationality: Malaysian