

# Joey Tang

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## SUMMARY

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Technology enthusiast with 9+ years of experience with coding and computer systems, with 5 years of focused study in cybersecurity specialising in web security. Voracious learner driven by a strong sense of curiosity.

## WORK EXPERIENCE

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### Research Engineer @ Pragnition Labs

Mar 2026 - Current

First technical hire. Developing agentic workflows and solutions for corporate clientele along with in house development tooling. Currently leading a project team (unable to disclose nature of project).

### Cybersecurity Engineer (Intern) @ DSTA

Nov 2022 - Dec 2022

Developed a Python library for data embedding in machine learning models with Numpy based on the EvilModel paper to aid in research on malware embedding in neural networks. Sped up pre-existing workloads via various optimizations by an average of 50000x (10min to 20ms).

### Software Engineer (Intern) @ Intellex Ltd.

Oct 2019 - Dec 2019

Built and updated web scrapers with the Scrapy framework for the purposes of data collection for an Elasticsearch based legal document lookup tool and in-house model training.

## PROJECTS/AWARDS

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2nd @ GreyCTF	2025
2nd @ DSTA BrainHack Cyber Defenders Discovery Camp CTF	2025
3rd @ DSTA BrainHack, Today I Learned(Machine Learning) Advanced	2025
1st @ DSTA BrainHack, Today I Learned(Machine Learning) Novice	2024
2nd @ DSTA BrainHack Cyber Defenders Discovery Camp CTF	2024
Hwa Chong Institution Outstanding Student Award	2024
2nd @ SMU Whitehacks	2023
3rd @ WithSecure - BlackHat Asia Qualifications	2023
2nd @ DSTA BrainHack, Cyber Defenders Discovery Camp CTF	2023
DSTA Junior College Scholarship	2022-2023

### Sieberraec CTF 2022-2026

[Site](#)

Organized an annual capture the flag competition targeted at high school - junior college level participants. Mainly involved in infrastructural work, challenge setting and challenge quality assurance.

### Singapore Informatics League

[Site](#)

- Informal informatics competition targeted at the novice high school level. Backend development for the contest platform (Firebase)
- Developed the entire backend with a team of 2.

### Singapore Physics League

[Site](#)

- Backend development for the contest platform (NodeJS, Express, MySQL)
- Current Backend Lead.

### Distance Algorithm for Automated Feedback using Machine Learning

2022

- Investigated methodologies to cluster Python code submissions for coding assignments based on control flow graphs, Python AST and word2vec
- Implemented automated feedback and code correction based on syntax differences between similar incorrect and correct submissions
- Technologies used: Linux, Numpy, Pandas, Python, Pytorch, various data visualization libraries

### Multimodal Sentiment Analysis @ YDSP

2021

- Research on sentiment analysis of social media posts, using late and early fusion of visual and textual sentiment analysis. Implemented a late fusion approach of training an LSTM for textual analysis and using CLIP for image analysis.
- Technologies used: Linux, Numpy, Pandas, Python, Pytorch, word2vec, CLIP

## EDUCATION

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2017 - 2023 Physics, Mathematics, Economics, Computing at **Hwa Chong Institution**

(RP: 90/90)

## SKILLS

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Programming Languages Python, C++, C, Rust, Assembly