Liu, Zhenyuan/Desmond

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Note: Since this CV is hosted online, sensitive info is obscured. Please send me an email for a full-version CV.

🎓 Education

The Chinese University of Hong Kong   2017 – 2021
BSc. in Computer Science.
Cumulative GPA: 3.xx   Major GPA: 3.xx

📘 Research Experience

Generating Adversarial Examples in Text Classification   2019.06 - 2019.09
- Advisor: Prof. Michael R. Lyu, CUHK
- Faculty 2019 Summer Research *Best Project Award*
- Attack state-of-the-art text classifiers (mainly neural nets) via white-box and black-box methods.

Slicing Neural Networks Using SVM   2020.06 - Present
- Advisor: Prof. Anand Sarwate, Rutgers University
- Funded by Professor Charles K. Kao Research Scholarship
- Use SVM in the middle of gigantic neural nets to save computation and network communication cost in remote settings.

Analyzing Motions and Stiffness of the Multi-Joint Assemblies   2020.07 - Present
- Advisor: Prof. Fu Chi Wing, CUHK
- Predict motions of complex assembled stuctures and optimize their stablity.

⚗ Side Project

TimeWalk: A Cross-platform Coding Metrics Tracker   2020
- Track coding metrics with respect to different languages and text editors.
- The core, written in Python, is designed to be extensible for customized metrics with a plugin system
- Visual Studio Code plugin available on VS marketplace and IntelliJ plugin in progress.
- Open-source at GitHub

🏆 Selected Awards and Honors

Professor Charles K. Kao Research Exchange Scholarship	2020
Outstanding Academic Performance Scholarship, Dept. of CSE	2018-19
Outstanding Academic Performance Scholarship, Dept. of CSE	2019-20
ELITE Stream Scholarship, Fac. of Engineering	2017-18
ELITE Stream Scholarship, Fac. of Engineering	2018-19
Dean's List, Fac. of Engineering	2018,19,20
Shaw College Exchange Scholarship	2018-19

⚙ Professional Skills

Programming languages:
- Proficient in: Python, C/C++
- Familiar with: Go, Java, JavaScript, TypeScript, Clojure, HTML/CSS, Dart, R

Frameworks:
- Machine Learning: TensorFlow, PyTorch, scikit-learn
- Web/Mobile/Desktop Development: Vue, Flutter, React Native, Electron
- Cloud: AWS