

LIU Zhenyuan, Desmond

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Education

The Chinese University of Hong Kong

2017.09-2021.07

- Bachelor of Science in Computer Science, ELITE Stream
- cGPA: 3.77/4.00 Major GPA: 3.93/4.00
- Major courses: AI, OS, Database, ML, Graphics, Algorithm, Software Engineering, Parallel Computing

Awards & Achievements

- 2017 Faculty Admission Scholarship (HKD 5,000)
- 2017-18 ELITE Stream Scholarship, Faculty of Engineering, CUHK (HKD 20,000)
- 2018-19 ELITE Stream Scholarship, Faculty of Engineering, CUHK (HKD 16,000)
- 2018-19 Outstanding Academic Performance, Dept. of CSE, CUHK (HKD 10,000)
- 2019 Shaw College Exchange Student Scholarship (HKD 10,000)
- 2018, 2019 Dean's List, Faculty of Engineering

Research Experience

Convex Optimization

2018.06 - 2018.09

- Supervisor: Professor Sidharth Jaggi, Dept. of IE, CUHK
- Understand the principle of information theory and convex optimization
- Devise an algorithm to compute the channel capacity for different information channels

Generating Adversarial Examples in Text Classification

2019.06 – 2019.09

- Supervisor: Professor Michael R. Lyu, Dept. of CSE, CUHK
- Faculty of Engineering Summer Research 2019 **Best Project Award**
- Attack current state-of-the-art text classification models with white-box and black-box method

Extra-Curricular Activities

Wei Lu Flame Dialog Association, Head of CUHK

2018.09 – 2019.09

- Approach professors and scholars and invite them for interview
- Negotiate and communicate with heads of Wei Lu of other universities monthly

Projects

TimeWalk: Coding Metrics Track and Report (github.com/desmondzyliu/timewalk-core)

- Core program in Python, interacting with database and plugin system
- Editor plugins in various languages, providing user interface to the core program for each text editor

Skills & Interests

Languages

- Proficient in C, Python.
- Familiar with C++, Java, Dart, Go, JavaScript, TypeScript, Prolog, ML, Perl

Tools & Framework

- AWS, Node.js, MPI, RPC, SIMD, CUDA Programming, Flutter, Electron, SQL, PyTorch, TensorFlow