

Eric Han

Student



+65 9298 2927



mail@eric-han.com



/in/eric-han-lw



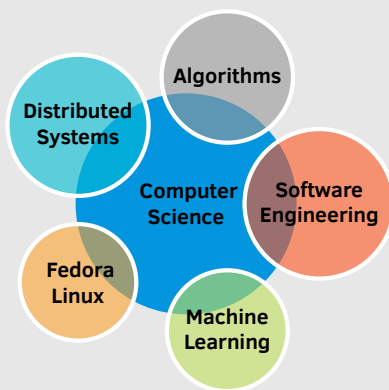
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Skills

Overview



Programming

Basic —————> Working

Java . C++ . Python . Javascript

C . HTML . Latex . Markdown

Haskell . C# . SQL . Bash

Projects

CS3230R - Investigated and compared 2 algorithms that tackles the k- Community Detection Problem.

CS2100R - Implemented MIPS virtual machine in Javascript with visualization.

CS3201/02R - Reviewed Static Program Analysers, defined a javascript-like language, proposed new language relationships and implemented a reference.

CS3219R - Studied and implemented several software patterns for teaching.

Pinder - Co-founded startup, Pinder, application to recommend (based on location) events to users.

Education

2013-
2017

Bachelor of Computing

National University of Singapore (NUS)

Graduated With Honours (Highest Distinction) in Computer Science
Completed the Turing Programme.

Achievement

2017

Dean's List Recipient

NUS

Dean's List is awarded to top 5% of the cohort.

2016

Certificate of Merit in Algorithms & Theory Focus Area

NUS

Awarded to students who have done well in their focus area.

2013

AUS Scholar

Agency for Science, Technology and Research (A*STAR)

*Awarded the A*STAR Undergraduate Scholarship (AUS)*

AUS is a prestigious scholarship awarded to budding scientists.

Research

AY2016/17
1 Year

Final Year Project

NUS / A*STAR IHPC CS AI Group

Feature Subset Selection (FSS) using Reinforcement Learning (RL)

Tools: Python, Bash, gym, numpy, scipy, scikit-learn, tabulate, openml, plotly, kerlym, keras, tensorflow, auto-dnn, scikit-feature
Thesis: FSS algorithm should be able to find features for a generic dataset and balance between prediction performance and speed.

- Proposed and implemented 2 different wrapper based frameworks, built on several of Google deepmind's works.
- Proposed and tested a novel modification of Q-Learning and applied it to FSS. Tested Q-Learning based framework against 22 state of the art algorithms across 8 datasets and 2 inductors.

AY2014/15
1 Year

Undergraduate Research Opportunity Program

NUS

Configurable Web Crawling

Tools: Java, Maven, Solr, MongoDB, Apache HTTP Client, numactl
Thesis: Web Crawlers should be reliable, anonymous and configurable. They should also extract information to structured data.

- Proposed and implemented a distributed/multi-threaded architecture (crawler, proxy and database servers) for web crawling.
- Deployed in production for a Master's Coursework (Sociology).

Experience

1 Dec 17-
26 Apr 18

Quality Control IT Project (Webapp, Android)

Scanteak

Software Development using Google App Engine infrastructure.

30 May 17-
30 Jun 17

Software Developer (Automation)

Scanteak

Developed internal applications to automate processes.

27 May 16-
19 Aug 16

Software Engineering Intern

Church of Singapore Bukit Timah

Church Management System (CHMS)

Study existing systems, propose and implement a CHMS portal.

6 May 15-
31 Dec 15

Research Intern

A*STAR IHPC CS DC Group

Autonomous Machine Learning using HPC Approaches

Contributed to a cloud based Machine Learning platform.

18 May 15-
15 Jun 15

Sharing on Computational Thinking

Pioneer Junior College

Taught computational thinking to junior college students.

14 Jan 13-
13 Jul 13

Research Intern

A*STAR IHPC CS DC Group

Route My Day - Recommends routes and point-of-interests to users

Contributed to a end-to-end recommender system.

10 Feb 11-
09 Dec 12

2SG - Second Sergeant

Singapore Armed Forces

Combat Engineer Trainer - Managed and trained men/cadets