

# Cheng Yanru

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## EXPERIENCE

### Alvanon HK Ltd. — *Jr. Machine Learning Developer*

Jul 2018 - Aug 2019

- **Parametric Model Building R&D**
  - Based on 1000+ 3D human scanning point cloud
  - Implementation of parametric model based on **SMPL** model
  - Multiple applications relying on **deep neural network**
- **Consultancy Service**
  - Supply chain management and target customer demographic analysis based on 1 million+ human scanning data

### City University of Hong Kong — *Student Assistant*

Jun 2016 - Jul 2017

- Paper: "Teaching Computational Thinking by Gamification of K-12 Mathematics and Computer Science Tournament", in CTE2017
- App: **The Algebra Game & The Algebra Maze**

## EDUCATION

### University of Hong Kong — *Master of Science*

Starts from Sep 2019

- Major: Computer Science (Financial Computing Stream)

### City University of Hong Kong — *BSc with First Class Honours*

Sep 2014 - Jul 2018

- Major: Computer Science (Data Science Stream)
- Computer Science Major CGPA: **3.82/4.3** (Overall CGPA: **3.70/4.3**)

## PROJECTS

### Road Scene Semantic Segmentation with DNN (2018)

- Supervisor: **Prof. Rynson W. H. Lau**
- Semantic Segmentation using encoder-decoder structure DNN
- Implement and compare the performance improvement brought by **GCN**, **PSPNet** and **DUC-HDC** architectures. ([Demo](#))

### Cracking - Calculator: the Game (2020)

- **Search algorithms based solutions** to efficiently crack game levels in [Calculator: the Game](#) and [Calculator: the Game 2](#).
- URL: [github.com/yanrucheng/crash\\_calculator](https://github.com/yanrucheng/crash_calculator)

## Leetcode Experience

### Weekly/Biweekly Contest

- Best ranking: **165** out of **9847** (**top 1.6%**)
- Avg ranking: ~200 globally (**top 2%**)
- Finished Contests: **47**

### Community

- [Reputation](#): ★198
- Highly voted posts:
  - [Biweekly Contest 20 - Q4](#)
  - [Weekly Contest 177 - Q4](#)

### Coding

- Coding with **Python** & **C++**
- 360+ problems solved
  - **Medium**: 195 solved
  - **Hard**: 57 solved

## AWARDS

- **5 times** named to the **Dean's list** of College of Science and Engineering (2015 - 2017), City University of Hong Kong

## LANGUAGES

- **English**: Fluent
- **Mandarin**: Native