

I-Tsun (Raymond) Cheng

Computer Science Major · Hong Kong University of Science and Technology
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EDUCATION

- Hong Kong University of Science and Technology
School of Engineering (Intended Major: Computer Science), May 2022
Attending with 4-year full scholarship
- Shanghai High School International Division
High School & IB Diploma (Class rank: top 10%, IB Predicted Score: 44/45), June 2018

COMPETITIONS

National Taiwan University Hackathon (HackNTU)

Lead Developer, August 2016 and July 2017

- Built an RPG mobile game that requires players to take photos of certain items in order to complete the game and earned Top Prize (top 8 overall out of 200+ international teams), HackNTU 2016
- Built a website that can provide the consequence of using different combinations of pharmaceutical medicines at once and earned Popularity Award (top 10 in popularity out of 200+ international teams), HackNTU 2017

Ubtech Robotics Design Challenge

Leader and Lead Developer, May 2017 – July 2017

- Developed new innovative functionalities for the popular consumer robot Ubtech Alpha 1 Pro and earned Certificate of Recognition

PROJECTS

Image Recognition Research

Researcher, March 2017 – April 2018

- Researched on the efficiency of Tree-Structured Parzen Estimators and Random Search Algorithms (machine learning hyperparameter optimization algorithms) on convolutional neural networks for image recognition.
- Wrote a 4000-word research essay for my IB extended essay.

Website Development and Maintenance (oClubs)

Leader and Lead Developer, Dec. 2016 – May 2018

- Developed from scratch and maintained the website for displaying 100+ club information at school and allowing the school to easily manage clubs.
- Published the website on an external server on <https://oclubs.shs.cn> and accounted for the security measures. This website is used by all 1000+ students and teachers in my high school.

Food Recognition Diet-Planning Android Application

Developer, Sep. 2017 – April 2018

- Developed a mobile application that recognizes the foods the users upload and provides them a convenient way to see the calories. The application can compute the recommended calories for intake to meet their diet requirements and give food suggestions.

SKILLS

- Programming languages: Java (5 years of exp.), Python (3 years), C, HTML/CSS, JavaScript, Visual Basic, Arduino, Bash
- Frameworks and tools: Keras, Tensorflow, Flask, Git, SQL
- Other skills: Linux/Unix, MATLAB, SolidWorks