

Boyang Yan

I have two dreams, becoming a Computer Vision researcher and educated in the United States (American dream). Pursuing a dream is not going well. I meet the academic challenge in the third semester for my bachelor degree in computer science. I have failed a couple of subjects. My chosen subjects strategy is wrong, I have chosen too much core subjects at once. But, as you can be seen, my last year, average scores got distinction but average scores not good in total. On master study, I have stopped in the middle because if I finished that, I will no change pay tuition fee and study in the USA. In China University of Mining and Technology, I have a good academic record, but the English language is not good, so I have not successful go to the USA directly.

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14-6-602 Zhuhuali
Community,
Huayuanxincheng
Nankai District, Tianjin,
China

Experience

2018.12 - Now **Algorithm Engineer** [Peng Chen Laboratory, Shenzhen, China](#)
Flight Control System Testing for fixed-wing UAV(Ardupilot), 3D Printing

Contact Info

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Education

2018.1 - 2018.11 **Master of Research (Computer Science)** [University of Wollongong, Australia](#)

Metamorphic Testing (Software Testing)

Main subjects: Software Testing, Operational Research, Big Data Analysis, Natural Language Processing

Main Achievement: One published paper, Metamorphic Relations for Data Validation: A Case Study of Translated Text Messages

2014.3 - 2017.12 **Bachelor of Computer Science** [University of Wollongong, Australia](#)

Major in Software Engineering

Main subjects:

Algorithms and Data Structures(80 Distinction)

Object and Generic Programming in C++ (75 Distinction)

Interactive Computer Graphics (75 Distinction)

Multimedia Computing (73 Credit)

software Engineering Practices & Principles (82 Distinction)

Score Progress:

year 2014 avage score: 63.25

year 2015 avage score: 45.14

year 2016 avage score: 57.00 - final project got 82 distinction

year 2017 avage score: 76.25 - distinction

Main Achievement:

1. The best final project prize (Human Research Management System base on Web)

2. First Three Semester had: Undergraduate Excellence Scholarship

2013.3 - 2014.3 **English for Tertiary Studies** [University of Wollongong College, Australia](#)
Main subjects: Academic English

2011.9 - 2013.3 **Bachelor of Business Management** [China University Of Mining And Technology](#)

Average mark of 91% . Most of courses got High Distinction

Main subjects:

Mathematics 1: Algebra and Differential Calculus score: full mark

Mathematics 2: Series and Integral Calculus score: 84

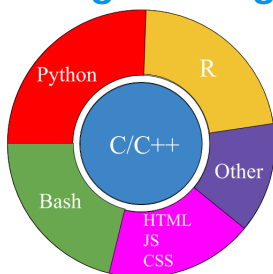
Mail

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Web & Git

github.com/yanboyang713
yanboyang.com

Programming



OS Preference

GNU/Linux ★★★★★
Unix ★★★★★
MacOS ★★★★★
Windows ★★★★★

Languages
Chinese ★★★★★
English ★★★★★

Publications

Boyang Yan, Brian Yecies, Zhi Quan Zhou: Metamorphic Relations for Data Validation: A Case Study of Translated Text Messages. IEEE/ACM 4th International Workshop on Metamorphic Testing (MET '19), in conjunction with the 41st International Conference on Software Engineering (ICSE '19), Montreal, Canada; 05/2019

Academy Congress and Conference

May 26, 2019

Paper Presentation - Title: Metamorphic Relations for Data Validation: A Case Study of Translated Text Messages [ICSE, Montreal, Canada](#)

August 11, 2017 **showing my final year project about Human Resource Management System based on Web (whole swap card subsystem and database are finish independently)**

[IEEE Sections Congress \(SC2017\), Sydney, Australia](#)

Certifications

2017 **Amateur Radio Operator's certificate of proficiency (Standard)**

[The Wireless Institute of Australia \(WIA\)](#)

2016 **Ross a. Hull memorial Vhf-Uhf contest**

[The Wireless Institute of Australia \(WIA\)](#)

Twelfth Place in Section A (Analog Modes, Best 7 Days) and Twelfth Place in Section C (Analog Modes, Best 2 Days)

2014 **Amateur Radio Operator's certificate of proficiency (Foundation)**

[The Wireless Institute of Australia \(WIA\)](#)

2010 **The Second Place Prize Awarded, Tianjin School Sports Competition Award "92" National Games Tianjin**

[Tianjin Basketball Tryouts, China](#)

High school men's Group B. Primary and Secondary (Vocational) School Basketball Games. Have got the second grading certificate and title

Training Courses

18.11.2018 **Sololearn(C++)**

[Sololearn](#)

2.9.2017 **Sololearn(Python3)**

[Sololearn](#)

2012 **Intel innovation in EDUCATION**

[Intel Learn Program \(Technical and Community\)](#)

Extracurricular Activity

I am a big fan of amateur radio (ham radio). This is my biggest extracurricular activity. In 2014, I have got my first amateur radio license (foundation license). At that time, my purpose is talking and learning English because I can talk or send a message with all over the world radio amateur. After my purpose is changed. I have found amateur radio have bigger relate with my major, computer science. Amateur radio is not only sent morse code, which becomes history. I am currently got my standard license. So, I am more and more using new technology for radio. Such as SSTV for the picture, D-STAR for digital mode voice transfer and data transfer. Even International Space Station(ISS) also have got amateur radio FM repeater. I am more and more focus on technique part for radio. I also take part in some amateur radio competition. For example, ross a. Hull memorial vhf-uhf contest. I have got Twelfth Place in Section A (Analog Modes, Best 7 Days) and Twelfth Place in Section C (Analog Modes, Best 2 Days)). This is only a part of my amateur radio activity.

Research & Project

2017 **OPENGL construct a room**

[University of Wollongong, Australia](#)

Using OPENGL construct a room with four walls and a floor, as well as two paintings, which are hung on separate walls, light, table and desk and so on.

2017 **OPENGL planetary system**

[University of Wollongong, Australia](#)

OpenGL program for a planetary system

Github Link:

<https://github.com/yanboyang713/openGLPlanetarySystem.git>

2016 **5th order low-pass Butterworth filter**

[University of Wollongong, Australia](#)

Using SDL develop a program to process signal using the 5th order low-pass Butterworth filter and to play the processed signal.

Github Link:

<https://github.com/yanboyang713/butterworthFilter.git>

2016 **image histogram equalization**

[University of Wollongong, Australia](#)

Using SDL develop a colour image display and enhancement program. The program enhances an image using histogram equalization and displays the enhanced image.

Github Link:

<https://github.com/yanboyang713/histogramEqualizationImage.git>

2017 **Swap Card System**

[University of Wollongong, Australia](#)

Swap card system for record attendance. I have using Arduino, raspberry pi, the level shifter, LCD controller and LCD screen. In raspberry pi, I have written by Python, using HTTP socket connect with Java backend. And using I2C bus connect with Raspberry Pi, Arduino and LCD controller. Level shifter for convert different volt in the I2C bus. RFID sense connects with Arduino. In Arduino, I have written by c++.

2018 **Metamorphic Testing in Text comparison tool**

[University of Wollongong, Australia](#)

Using metamorphic testing method for testing DIFF utility quality. I have totally create 10 metamorphic relations.

2017 **Testing in machine translation software**

[University of Wollongong, Australia](#)

Using metamorphic testing method for testing and compare Google, Bing and Youdao machine translation software quality.

Github Link:

<https://github.com/yanboyang713/Metamorphic-Testing-of-Machine-Translation-Software.git>

2017 **Rainbow Table**

[University of Wollongong, Australia](#)

Implementing a rainbow table for Anti-Hash Function write by c++

Github Link:

<https://github.com/yanboyang713/rainbowTable.git>

Referral Info

- George Zhou <zhiquan@uow.edu.au> Research Project
- Jack Yang <jiey@uow.edu.au> Research Project
- Eve Shaw <eve@uow.edu.au> English aspect
- Mark Freeman <mfreeman@uow.edu.au> undergraduate final project
- Casey Chow <caseyc@uow.edu.au> computer graphics aspect
- Tianbing Xia <txia@uow.edu.au> base programming aspect and database aspect

June 10, 2019

Boyang Yan