

Boyang Yan

Education

- 2018 - Now **Master of Research (Computer Science)** [University of Wollongong, Australia](#)
Software Testing
Main subjects: Software Testing, Operational Research, Big Data Analysis, Natural Language Processing
- 2013 - 2017 **Bachelor of Computer Science** [University of Wollongong, Australia](#)
Major in Software Engineering
Main subjects: C++ Programming, Algorithms and Data Structures, Database Systems, System Security, Multimedia Computing, Operation System, Interactive Computer Graphics, W3 Technologies, Software Development Methods & Tools, Software Process Management, Mathematics and Statistics, Information Systems
Title of the Final Project: "Human Research Management System base on Web".
- 2013 **English for Tertiary Studies** [University of Wollongong College, Australia](#)
Main subjects: Academic English
- 2011 - 2012 **Bachelor of Business Management** [China University Of Mining And Technology](#)
- 2008 - 2011 **High School Degree** [Tianjin Jingu Experimental, China](#)
Most of the courses got High Distinction
- 2005 - 2008 **Junior High School Degree, China** [Tianjin Jingu Experimental, China](#)
- 2003 - 2005 **Primary School Degree** [Primary School attached to Tianjin Normal University, China](#)
- 1999 - 2003 **Primary School Degree** [Primary School attached to Xinjiang Normal University, China](#)

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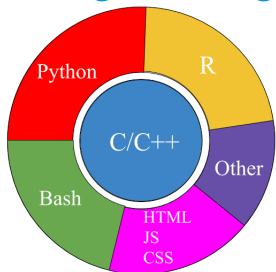
Web & Git

github.com/yanboyang713
yanboyang.com

Certifications

- 2017 **The best final project prize** [University of Wollongong, Australia](#)
- 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

Programming



OS Preference

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

Training Courses

2012 Intel innovation in EDUCATION Intel Learn Program (Technical and Community)

Scholarships

2014 Undergraduate Excellence Scholarship University of Wollongong, Australia
offers a 25% tuition fee reduction

Academy Congress and Conference

On August 11, 2017, I took part in the Institute of Electrical and Electronics Engineers (IEEE) Sections Congress (SC2017), in Sydney, showing my final year project about Human Resource Management System based on Web.

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

Software Engineering Aspect

2018 Testing in cross-language sentiment analysis

University of Wollongong, Australia

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](#)

2015 UML in game shop

University of Wollongong, Australia

Using UML construct a use case diagram, class diagram, interaction diagram, context diagram and data flow diagram for a game shop.

Multimedia Aspect

2017 OPENGGL construct a room

University of Wollongong, Australia

Using OPENGGL 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 OPENGGL 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

Tries Data Structure

University of Wollongong, Australia

Doing some research about count unique word appear frequency and sort word frequency by decreasing count order. The main data structure is using tries to record each unique word.

Github Link:

[https://github.com/yanboyang713/
tries-data-structure-count-unique-word-frequency.git](https://github.com/yanboyang713/tries-data-structure-count-unique-word-frequency.git)

2017

simulate shop service

University of Wollongong, Australia

This project is about simulate shop service drive by event not by time.

Github Link:

<https://github.com/yanboyang713/simulate-shop-service.git>

Security Aspect

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>

Hardware Aspect

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++.

Working Google Home control light

University of Wollongong, Australia

Using NodeMCU with Google Home control light at home.

Database Aspect

2017 MYSQL Database

University of Wollongong, Australia

Using MYSQL doing human resource management system for final year project

2017 RDF Semantics Database

University of Wollongong, Australia

Using RDF semantics database for record movie data.

Web Aspect

2016 Blog

[University of Wollongong, Australia](#)

making my own blog using Jekyll.

2014 Website based on Drupal

[University of Wollongong, Australia](#)

Creating Illawarra film Society website based on Drupal.

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**

Oct 17th, 2018

Boyang Yan