

# Pei Xu

+61 0401396681 | Talbenxu@gmail.com

Sydney  
<https://talbenxu.github.io/>  
Age: 24 | M

## SUMMARY

- After accomplishing the bachelor's degree in SCAU, directly commence postgraduate study in New South Wales (UNSW) with strong logical thinking and learning ability, have good English reading and communication skills, new skill sensitive, with strong software security knowledge.
- UNSW cloud computing community members, understand and frequently use the AWS Cloud, Azure, Google Cloud computing, storage products. Participate in Microsoft's cloud computing training and access to Azure-900 certification.
- Have a Linux platform C / Java / Python language and communication network development experience, familiar with a variety of programming languages, in-depth understanding of computer architecture, to understand web development, with the front and backend development experience.

## EDUCATION

### University of New South Wales

Jul 2018 - Sep 2020

Artificial intelligence, Database systems Master

- Related courses: data storage and mining, neural network depth learning, database system implementation, software configuration, engineering security, artificial intelligence, computer networks, data structures
- Awards: UNSW technology and creativity game second

### South China Agricultural University

Sep 2014 - Jul 2018

Information and Computing Science Bachelor

- Related courses: discrete mathematics, mathematical analysis, probability theory, mathematical modeling, advanced algebra, database foundation, C and Java programming
- Second Honour

## PROFESSIONAL EXPERIENCE

### Sydney Meiri Startup

Sep 2019 - Dec 2020

Software Testing Intern

Sydney

- Using counterpart products, comparing the business end of the simulation, the rider ends and the client ends. Cooperating the three-terminal operation, logic design to identify vulnerabilities, to help software developers to quickly complete the core modules
- Writing a manual for Software functionality and automated playback test with various equipment problems summary, recommend changes to improve the use of cross-platform App
- Write python program, call the Google Map API, information for the shop in Sydney, Melbourne and other major cities in Australia, the conversion of disaggregated data for the business development staff to excel

## ASSOCIATIONS SUBJECTED

### UNSWCLOUD

Dec 2018 - Jul 2019

member software design

- Founding member of the early community, responsible for organizing the conference, apply the classrooms and participate in project design and simulation of cloud computing information transmission process
- Write WeChat article to increase the member of the society and expand the influence of the community

## SCHOOL PROJECT

### TravelBot

Mar 2020 - May 2020

<https://unswtravelbot.knightnerd.com/>

- The project is a graduation project, to design a robot that can purchase operation through dialogue.
- Functions including natural language recognition, image recognition (the user can obtain the ticket information upload destination). Architecture including the preceding page, the back-end framework Node.js express, and Google API Dialogflow natural language recognition and picture identification systems Vision training and configuration.
- After running locally, configure the software to automate on Google App Engine services, and connect the DNS domain name.

### Multithreaded allocator

Mar 2019 - Sep 2019

- With time-consuming requirements of different tasks and specifically threads, the number of threads that can be assigned in conjunction with, using C language priority queue data structure, optimize the allocation of tasks.

### P2P file transfer system

Mar 2019 - Sep 2019

- Implement any number of a landing P2P system that can automatically detect when the user logs on-line, using a random replacement algorithm, add the current optimal connection point of the user's
- Accomplished by a hashing algorithm to find the file, using a reliable UDP transport TCP analog transmission, transmission timing of a message by way of the vicinity of a node complete validity detector, and automatically terminates the connection on the nodes wait time is exceeded.

### Japanese Calligraphy Identification

Mar 2019 - Sep 2019

- Python project, using pytorch library take of batches of the photo caption feature recognition using the network as well as the length of the convolution neural network, design a reasonable number of intermediate network structure, to avoid over-fitting, recognize text
- Build neural structure be uploaded to Google Lab GPU accelerated training, using real data to enhance the accuracy and optimize the structure, to reach 86% accuracy rate

### Forum Website

Mar 2019 - May 2019

- Use frameless pure JS, multi-threaded single-page feedback forum Reddit-style front end
- API call Token transmission key has been acquired user data and corresponding dynamic data, and presenting the content adaptive
- JS use automation to generate the corresponding HTML and CSS, website to complete user registration, login, sending the main function of dynamic social media

## SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** C, Java, Python, Linux, Git, SQL, AI, Cloud
- **Certifications:** Azure900, NCRE JAVA two level, PTE 80 overall band, IELTS 7 points,
- **LANGUAGE:** Chinese, English