

EDUCATION

National University of Singapore

Master of Science in Computing

Singapore, Singapore

Aug 2020 - now

Tongji University

Bachelor of Science in Software Engineering, GPA 4.41/5.0 (89.1/100), Outstanding Graduate Sep 2016 - July 2020

Shanghai, CHN

- Coursework: Calculus I & II, Linear Algebra, Probability and Math. Statistics, Discrete Mathematics, Algorithms Design and Analysis, C Programming, Object-Oriented Programming, Enterprise Java Programming, .NET Framework and Programming, Data Structure, Data Analysis and Data Mining, Cocoa-based Apple Software Development, Mobile Software Development (Android), Operating Systems, System Analysis and Design

Imperial College London

*Imperial College Robotics & AI Winter School Program, Grade A**

London, UK

Jan 2019 - Feb 2019

- Best Overall Project, Leader of the Winning Team

PROFESSIONAL EXPERIENCE

SAP

Intern, Knowledge Graph Studies

Shanghai, CHN

Jul 2019 – May 2020

- Joined the Knowledge Graph Research Team and carrying out experiments in creating knowledge graphs in fields including bills exchanges, bank records, and analysis of bank users' purchasing behavior
- Combining the knowledge graph to machine learning focuses on data integration, experiment conduction and data analytics, dealing with potential vulnerabilities to ensure the basic model of the knowledge graph

SAP

Intern, Research & Presentation

Shanghai, CHN

Jul 2019 – May 2020

- Joined the BOE team and carrying out research on SAP new technology tools, including the SAP Machine-learning platform, SAP Cloud platform, and SAP Business Rules module
- Responsible for technological exploration, especially the Machine-learning platform, introducing the new technology applied and instruction to all of the team members through presentation

RESEARCH

XLab, Tongji University

Sep 2018 - Jul 2020

- Collected initial data in Micro-services, did research on the development of the knowledge graph, developed the knowledge graph in the field of operations, applied graph algorithm in discovering rules in the knowledge graph
- Set up knowledge graphs, took the cluster of Kubernetes as the research object and Neo4j as the database set up by the knowledge graph, conducted research on the environment of Kubernetes cluster

ILab, Tongji University

Oct 2018 - Jul 2020

- Cooperated as the fourth and second author respectively in completing the following four papers

PAPERS

“A Bi-attention Adversarial Network for Prostate Cancer Segmentation”

Guokai Zhang; Weigang Wang; Dinghao Yang; Jihao Luo; Pengcheng He; Yongtong Wang; Ye Luo; Binghui Zhao; Jianwei Lu, IEEE Access, vol. 7, pp. 131448-131458, 2019.

“A Dynamic Multi-scale Network For EEG Signal Classification”

Guokai Zhang; Jihao Luo; Letong Han; Zhuyin Lu, July 2020 (*Under Review*)

“A Boundary Refined Network for Vestibular Schwannoma Segmentation”

Guokai Zhang; Jihao Luo, August 2020 (*Under Review*)

“Two-stream Saliency Guided Network for Pulmonary Nodule Classification”

ADDITIONAL INFORMATION

Programming: C#, C, C++, Java, SQL, Python, JavaScript, Matlab, Pascal, Golang, Swift

Certificate: *Imperial College London* Robotics and Artificial Intelligence Winter School (21st Jan to 1st Feb 2019)

Interest: Basketball (Member of the department team), Calligraphy

APPENDIX I

PROJECTS

Sign Language Bridge, *Leader of Mobile Application Development*

Dec 2018 - Jul 2019

- It is a real-time sign language translation platform based on machine learning with two main features, real-time sign language translation and real-time voice translation, aiming at helping people with hearing and speech disorders.
- Responsible for mobile terminal application development to realize functions including video browsing, Moment issuing, and chat in the iOS end, learned the software Swift by myself within two months
- *Awards*: the First Prize in the 4th "Think Youth" - Shanghai International Digital Creation, Innovation & Entrepreneurship Competition; the Second Prize in "Challenge Cup" National College Student Business Plan Competition Shanghai Division

DreamW

Sep 2018 - Jun 2019

- It is an auxiliary platform for volunteer teaching based on AI to facilitate the interaction among volunteer teachers.
- Designed the program architecture, developed both webpage version and mini programs in WeChat application, responsible for blog section and chat room section, assisted in completing the intelligent recommendation system, developed the front end and the back end
- Organized meetings every week as the scrum leader, and in charge of work division and coordination in the team
- *Award*: the Third Prize in the 4th "Think Youth" - Shanghai International Digital Creation, Innovation & Entrepreneurship Competition

ILibrary

Jan 2019 - Feb 2019

- Brainstormed the idea with teammates, solved technical difficulties, coordinated between three groups of my team, and responsible for the presentation
- Designed the program architecture and the front end and the back end of the project, responsible for the connection with the robot arm, explored video identification and image processing features
- *Award*: the Best Overall Project in the Robotics and Artificial Intelligence Winter School

HONORS AND AWARDS

2nd Prize in 4th Shanghai College Students Cultural Innovation Works Display	2019
Excellent Student	2018-2019
The First Prize of Tongji Scholarship of Excellence	2018 - 2019
The Third Prize of Tongji Scholarship of Excellence	2017 - 2018
The Tang Zhongying Moral Education Scholarship	2018 & 2019
The Second Prize in the National Mathematical Modeling Competition Shanghai Division	2018
The Third Prize of the National College English Contest	2018
The Third Prize of the Student Programming Competition of Tongji University	2017

EXCURRICULARS

Secretary of IBM Club	<i>Mar 2018 - Present</i>
Secretary of the Sino-German Dept. of the Secretariat (Awarded "the Star of the Year in 2018")	<i>Mar 2018 - Oct 2018</i>
Participated in the volunteer teaching project organized in Yingjiang, Yunnan province	<i>Jul 2017 - Aug 2017</i>
Associate Director of Tongji University Venture Valley	<i>Oct 2016 - Sep 2017</i>