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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MM IN STATICS & DATA SCIENCE
📅 Feb 2021 📍 edX

QUEENSLAND UNIVERSITY OF TECHNOLOGY

BlNFTECH
📅 Jul 2022 📍 QLD, Australia
International Merit Scholarship

JINLING INSTITUTE OF TECHNOLOGY

BSoFTENG
📅 Jun 2019 📍 Jiangsu, China
China National Scholarships
(**Top 0.2%** of Students in China)
GPA **3.97**/4.0
Merit Student
Advanced Student of Competitions
Excellent Student Scholarship

Links

🐙 GitHub **xiazeyu**
in LinkedIn **xia-zeyu**

Skills

TECHNOLOGY

Artificial Intelligence • Web • DevOps •
Backend • Information Security •
Network • Cloud Computing •
Robotics • \LaTeX • Hardware

KNOWLEDGE

Literature Review • Reference
Management • Critical Thinking &
Reasoning

LANGUAGE

Native: Expert Chinese
PSC 86/100
Second: Very good English
IELTS **8.0**/9.0 (L 9.0 R 9.0 W 6.5 S 6.5)

Experience

PRECIPITATE IDENTIFICATION AND MEASUREMENT USING NEURAL NETWORK IN NOVEL CHROMIUM-BASED ALLOYS

IMPERIAL COLLEGE LONDON
Proposed a **state-of-art** network based on YOLO and SegFormer.

TOOTH SEGMENTATION ON 3D DENTAL SCANS

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)
Proposed a **state-of-art** network with masked autoencoders and a new abstraction mechanism.

COURSEWORK TUTOR

JR ACADEMY
Providing tutoring services to university students.

SINGING VOICE DETECTION

JINLING INSTITUTE OF TECHNOLOGY
Implemented the **state-of-art** scaled dot-product modules.

AQUACULTURE UNCREWED SHIP DEVELOPMENT

JINLING INSTITUTE OF TECHNOLOGY
Implemented a ship solution with avoidance, formation, water monitoring, feeding, and IoT integration.

SOFTWARE ENGINEER

SUZHOU MINGGUAN SOFTWARE CO, LTD.
Developed virtualized working space, customer management system, offsite-data autonomy, and cross-site VPN.

OPEN SOURCE PROJECTS

- hexo-helper-live2d: **3.8k stars**
- live2d-widget.js: **1.5k stars**
- LANraragi: 1.1k stars
- hexo-blog-encrypt: 780 stars
- collector: real-world application
- Music Event Management: full-stack web project

OLYMPIAD IN INFORMATICS CONTESTANT

Competitions

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|---|--|
| China Robot and AI Competition | Team First prize |
| National Software and Information Technology Talent Contest | First prize |
| Programming Ability Test | No. 1 among 1195 competitors |
| China Collegiate Algorithm Design & Programming Challenge Contest | Silver Medal |
| International English Ability Challenge | Silver Award |
| National Olympiad in Informatics | Second prize |
| Jiangsu Province Olympiad in Informatics | First prize |

Publications

- [1] W. Gui, Y. Zeng, and **Z. Xia**, "Singing voice detection algorithm based on a scaled dot-product attention embedded convolutional neural network," in *NCMMSC2021*, 2021, pp. 256–264.
- [2] W. Gui, **Z. Xia**, et al., "Singing Voice Detection Based on Feature Attention Deep Neural Network," in *ICAIA2022*. 2022. Accepted.