Ke Siyun (Garfield)

P.O. BOX ***, MACAU

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Education

UNIVERSITY OF MACAU (2023-)(Persuing)
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M.Sc. in **Computer Science**,
Faculty of Science and Technology.
Thesis: Computational Pipeline for Annotating Stentor Avoidance Behaviors Videos
The thesis focuses on developing a machine learning-based video annotation system to analyze behavioral patterns in Stentor, a single-celled organism. The outcome potentially contributes to future bio-informatics study. Coursework from the MSc. project includes Advanced Machine Learning, Computer Vision, Natural Language Processing (NLP) and other fundamental concepts, e.g. software and networks.

UNIVERSITY OF MACAU (2019–2023)
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B.Sc. in **Computer Science**
GPA 3.42/4, HONOURS COLLEGE
Faculty of Science and Technology.
Specialisation: Data Science and Artificial Intelligence, Multimedia Computing.

MINOR PROGRAM in **Economics**
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Faculty of Social Science.
Related courses: Statistics, Econometrics.

Working / Training Experience

Work & Internship

IT-DEVELOPMENT INTERN (2022), The Venetian Macau, Sands China LTD.
PERIOD: Jun 2022.
SKILLS: E2E Test, JavaScript
___ *Gained insight into IT operations in the gaming and tourism industry.*
___ *Worked with Cypress to perform End-to-End Tests for internal web applications, improving test coverage and reliability*
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SUMMER RESEARCH INTERN (2021), Faculty of Science and Technology, University of Macau.
PERIOD: Jun 2021-Aug 2021.
SKILLS: CNN, Python
___ *Researched skyline segmentation using U-Net CNNs on images from unmanned boats.*
___ *Verified and evaluated performance of existing U-Net-like CNN, improved model accuracy through preprocessing techniques and performance evaluation.*

Supplementary Training & Certifications

BASIC MARITIME TRAINING (2024), Dongguan MSA, Guangdong.
PERIOD: Sep 2024.
SKILLS: STCW VI/1, & VI/6,
___ *Completed STCW-compliant basic safety training including fire prevention/fighting, personal survival techniques, and first aid.*
___ *Attended out of personal interest in maritime technology and logistics.*

Volunteering

NATIONAL GAMES VOLUNTEER (2025), The 15th National Games (Macau).
PERIOD: Jun 2025-Dec 2025.
ROLES: **Chaperone (doping control)**[1] and others[2]
___ [1]*In charge of notifying and escorting athletes for doping-control processing. Worked for and received full training from CHINADA*
___ [2]*Provided services in IT support, general site services, scoreboard maintenance... during other phases of the event.*
___ *Gained experience in large-scale event coordination and technical troubleshooting. Completed multi-phase training from 2023 to 2025.*
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COMMUNITY VOLUNTEER, Macau Volunteer Organization.
PERIOD: 2019-Now.
DUTIES: Community outreach, Companionship and assistance at nursing homes, Blood donation...
___ *Recognized frequent blood donator (citation from Macau Health Bureau)*
___ *Participated in community outreach, elderly care, and public health campaigns.*
___ *Provided emotional support and basic assistance during regular home visits to elderly individuals.*
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Project / Competition Experience

ROBUST OCR SYSTEM FOR MACAU HEALTH CODE,
Graduation project for fulfillment of B.S. Degree, developed an OCR system to extract health code and travel document data from images with high accuracy. Deployed prototype for internal testing.
SKILLS: CNN, Image processing, Python
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VALIDATION OF PORTUGUESE E-HEALTH LITERACY AMID THE COVID-19 PANDEMIC: A CROSS-SECTIONAL STUDY ON ADULTS IN MACAO SAR AND PORTUGAL(2022),
Social science (Interdisciplinary) research for fulfillment of Honours College Program, combining data analysis and survey methodology.
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CONTEMPORARY UNDERGRADUATE MATHEMATICAL CONTEST IN MODELING (CUMCM),
Second Prize of Undergraduate Teams, China Society for Industrial and Applied Mathematics
SKILLS: MATLAB, Excel.
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MORE PROJECTS (COURSE WORKS) presented in https://github.com/garfieldw33/

Honours & Awards

DEAN'S HONOURS LIST (2019-2023), Faculty of Science and Technology
HONOURS COLLEGE , University of Macau.
UM FULL SCHOLARSHIP FOR MAINLAND STUDENTS, University of Macau.

Skills

Key Computer Science Skills
Basic knowledge: Java, Julia, LaTeX, MySQL...
Intermediate / Advanced: Neural Networks, Image Processing (MATLAB/OpenCV), Python, C/C++...

Languages
English: CEFR-C1 (IELTS-7.0, CET6-625)
Chinese: Mandarin (Native) & Cantonese (Fluent)
Korean: Learning (Beginner TOPIK-1, Jul 2025)

Other Skills
Software: Adobe Photoshop, Acrobat, Microsoft Office,...
Maritime: Registered seafarer (cadet) in China (STCW basic training passed).

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