ERIC (JINGXIANG) GAO

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EDUCATION

Shanghai YKPao School *September 2019 - May 2022*

IGCSE, IB Diploma | IGCSE: A* in all subjects. IB Grade: 41/42

Head Prefect of 7-Day Boarding

Founder and Coach of Combatopia

Chief programmer of FTC Team Treeman 8515

Member of Volleyball Varsity

Carnegie Mellon University in Qatar *August 2022 - Present*

Undergraduate, Major in Computer Science | Overall Grade: Pending

TECHNICAL STRENGTHS

Computer Languages	Python, C++, R, Bash
Software & Tools	HTML+CSS, VMD
Fields & Areas	Machine Learning, Computational Biology

EXPERIENCE

SolvedChinese.org Aug. 2020 - Feb. 2021

Backend Developer

· Designed SolvedChinese.org 2.0 version

· Employed Django to develop webpage templates

· Established data update methods between Django database and frontend

Research on the randomness of Mersenne Twister PRNG Jun. 2021 - Oct. 2021

Student Research

· Evaluated the mathematical randomness of the number generation process of Mersenne Twister Pseudo-Random Number Generator (default PRNG for Python3)

· Established and mathematically proved 5 testing methods for holistic evaluation of randomness of PRNG

ACADEMIC ACHIEVEMENTS

National Silver Award (2021) in International Linguistics Olympiads

Gold Award (2022) in Intermediate Biology Olympiad (Global top 5%)

Silver Division (2021) in USA Computer Olympiad

Silver Award (2022) in International Genetically Engineered Machines competition (Global)

Inspiration Award (2021) as team in First Tech Challenge (National)

RELEVANT COURSES

Core Courses	**Other Courses**
Concepts of Mathematics	Social and Political Philosophy
Matrix and Linear Transformation	
Fundamentals of Programming and Computer Science	