Weizhi Du

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Education

Washington University in St. Louis   **GPA: NA/4.00**
B.S. Computer Science, Finance (intended)   *May 2027*
- **Key Courses:** Data Structures and Algorithms, Intro Higher Mathematics, Calculus III, Intro Computer Engineering
- **Honors & Awards:**
  - Howard Nemerov Scholarship, 2023-2027 (awarded to 10 outstanding writers from all WashU applicants)

The Athenian School   **GPA: 4.50/4.00**
High School Diploma   *June 2023*
- **Key Courses:** CS61A (UC Berkeley), Algorithm, Data Structure, Applied AI in Python, AP Computer Science
- **Honors & Awards:**
  - Safar Shakeyev Certificate for Outstanding Leadership, 2023 (most outstanding student leaders)
  - Physics Unlimited Premier Competition, Honorable Mention, 2023 (11th place in North America)
  - Speaker of the Convocation, 2022
  - S.-T. Yau High School Science Awards, 2022 (Global Finalist & Regional 1st Prize, Computer Division)
  - Mathematical Contest in Modeling, Honorable Mention, 2021 (college-level modeling contest)

Experience

Cornell Engineering   Ithaca, NY
Research Assistant – Image Super-Resolution   *June 2021 – December 2022*
- Developed Transformer and Generative Adversarial Networks (T-GAN) based super-resolution reconstruction networks to restore low-resolution medical images acquired with minimal radiation dose (programmed in Python).
- Experimented on MRI and CT images of knees and bellies and found that T-GAN achieved optimal performance compared with other traditional models (The co-authored paper was published in *Tsinghua Science and Technology*).

Shanxi University   Shanxi, China
Research Assistant – Coalition Control Model   *January 2020 – January 2021*
- Designed and programmed a Coalition Control Model (CCM) based on the Model Predictive Control (MPC) method and tested the validity of CCM on a realistic industrial fishing scenario (programmed in MATLAB).
- Authored a paper that demonstrated that CCM could dynamically distribute limited resources in complex scenarios and that CCM could be extended to other problems (The result won global finalist of Yau Awards with a selection rate of 1%).

The Athenian School   Danville, CA
Math Teaching Assistant – Applied Calculus, AP Calculus AB, AP Calculus BC   *August 2021 – June 2023*
- Hosted weekly office hours to support students from all three calculus classes through individual and group tutoring.
- Graded assignments & tests with narrative feedback; met with students one-on-one to improve their understanding of the material.

Leadership & Service

Dino Coding Group   Shanxi, China
Founder & Programming Teacher   *November 2019 – Present*
- Spearheaded the non-profit to promote programming education in rural and undeveloped areas in Shanxi Province, China.
- Taught Scratch and Python to 143 students for 100+ hours in partnership with overseas computer science researchers.
- Presented at conferences such as Shanxi Juvenile Education and Harvard ScratchEd on promoting programming education.

The Athenian School   Danville, CA
Mentor for International Students   *April 2023 – Present*
- Designed the curriculum for international students' transition & development with the Director of the International Program.
- Mentored students by hosting monthly sessions regarding academics, community engagement, and diversity awareness.

Prefect – Residential Life   *May 2022 – June 2023*
- Facilitated weekly dorm meetings and bonding events, enforced residential policies, and maintained students' well-being.
- Supervised and advised 60 boarding students as an active leader; recruited and trained new Prefects for 2023-24.

Skills & Activities

Technical Skills: Python, Java, MATLAB, R, TensorFlow, LaTeX, Photoshop, Premiere Pro

Spoken Languages: English (fluent), Chinese Mandarin (fluent), Japanese (limited)

Activities: Howard Nemerov Scholars Program; Financial Operation in Washington University China Business Association; Counsel Representative of LeeBeau Residential College; HackWashU hackathon participation