

Luke Zhang

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Education

Brown University | Providence, Rhode Island

Sc. B. Mathematics - Computer Science and A.B. Education

May 2028

GPA: 4.0/4.0

Work Experience

AI Engineer Intern | Linvest 21 / New York, NY

June 2025 – Aug 2025

- ◊ Responsible for framework upgrade of AI investment agent, including agent workflow, database, and concurrency
- ◊ Implemented agent response validation and evaluation system to improve agent stability and trustworthiness
- ◊ Collaborated with senior engineers to troubleshoot and fix live issues in the production environment

Teaching Experience

Teacher, Course Developer | Lanqiao Future / Zhangjiakou, China

Jul 2023 – Present

- ◊ Develop course materials for 5 topics to educate elementary school students about computer science and artificial intelligence
- ◊ Provide insight on marketing strategy for underprivileged students to understand the initiative
- ◊ Teach the course remotely and in-person to 20 students 3 times per week

Computer Science Tutor | Self Employed / Remote

Mar 2020 – Mar 2024

- ◊ Tutor 2 students weekly on python programming and relevant computer science topics
- ◊ Taught students from scratch to USACO bronze level programming

Math Tutor | George School / Newtown, PA

Sep 2022 – May 2023

- ◊ Offered weekly 2-hour sessions for students of all levels needing help in mathematics
- ◊ Hosted class-specific study sessions before exams

Research Experience

Technology Use in Classrooms: Student Response vs. Instructional Intent | Pioneer Academics

Jan 2023 – Aug 2023

- ◊ Investigated the effects of technology use in math classrooms and their relative effectiveness, and devised an explanatory-sequential research design
- ◊ Applied said research on surrounding high schools and compared the relative effectiveness measured in alignment

Leadership & Awards

Sprint Fellowship | Brown University

Aug 2025

- ◊ Selected for semester-long award to work with The Met High School located in Providence, RI
- ◊ Developed and maintained 5 different scripts and a user-friendly web UI to automate and solve practical challenges
- ◊ Managed administrative tasks and offered one-on-one assistance to students, ensuring their academic progress and well-being.

Fencing Team Captain & Founder | George School

Aug 2022 – May 2024

- ◊ Persuaded the school to give permission and funding for building a new sports team and scouted for fencing coaches
- ◊ Lead team in daily trainings during the winter season and assisted the coach
- ◊ Organized weekly off-season training throughout the school year to prepare members for the next sports season

Math Team Captain | George School

Aug 2023 – May 2024

- ◊ Organized weekly practice sessions to prepare for competitions
- ◊ Led the team in taking first place in the Philly Math League

Skills

Programming Languages & Softwares: Python, Java, C/C++, Racket, Javascript, Isabelle

Packages & Frameworks: Pytorch, Tensorflow, Langgraph, Langchain, SQL, Scikit-learn, Numpy, Pandas, Matplotlib, Fastapi

Systems & Tools: Linux (bash, SLURM), Git, Github, AWS, Jupyter Notebook, Markdown, L^AT_EX

Language: English, Mandarin, Limited working proficiency in French

Select Coursework

CS: Computer Systems, Deep Learning

Math: Linear Algebra, Multivariable Calculus, Abstract Algebra