Luke Zhang

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Education

Brown University | *Providence, Rhode Island* <div align="right">May 2028</div>
    Sc. B. Mathematics - Computer Science and A.B. Education <div align="right">GPA: 4.0/4.0</div>

Work Experience

AI Engineer Intern | *Linvest 21 / New York, NY* <div align="right">June 2025 – Aug 2025</div>
- 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* <div align="right">Jul 2023 – Present</div>
- 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* <div align="right">Mar 2020 – Mar 2024</div>
- 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* <div align="right">Sep 2022 – May 2023</div>
- 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* <div align="right">Jan 2023 – Aug 2023</div>
- 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 Experience

Fencing Team Captain & Founder | *George School* <div align="right">Aug 2022 – May 2024</div>
- 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* <div align="right">Aug 2023 – May 2024</div>
- Organized weekly practice sessions to prepare for competitions
- Led the team in taking first place in the Philly Math League

Dorm Prefect | *George School* <div align="right">Aug 2023 – May 2024</div>
- Manage the daily needs of and resolve conflicts between residents in a boy's dormitory
- Plan and organize weekly bonding activities to connect the dorm
- Assists teachers in resolving school rule infringements

Skills

Programming Languages & Softwares: Python, Java, C/C++, Racket
Packages & Frameworks: Pytorch, Tensorflow, Langgraph, Langchain, SQL, Scikit-learn, Numpy, Pandas, Matplotlib, Fastapi
Systems & Tools: Linux (bash, SLURM), Git, Github, AWS, Jupyter Notebook, Markdown, LaTeX
Language: English, Mandarin, Limited working proficiency in French

Select Coursework

CS: Computer Systems, Deep Learning
Math: Linear Algebra, Multivariable Calculus, Abstract Algebra