

Resume

Bairu Song

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EDUCATION

Lexington High School	Lexington, MA
High School Diploma	Expected Graduation: Jun 2029
Relevant Coursework: Honors Precalculus, AP Microeconomics, AP Computer Science Principle	

PROJECTS

Urban Scaling Simulator	Dec 2025 - Mar 2026
• Developed a Python-based quantitative simulation engine to model urban socio-economic evolution.	
• Analyzed 4,000+ years of cumulative data across 5 historical and 3 synthetic environments.	
NVIDIA Stock Pitch	Feb 2026 - Apr 2026
• Conducted financial valuation using 5-year statement data and sector trends.	

LEADERSHIP & ACTIVITIES

Economics Club	Lexington, MA
Member	Oct 2025 - Now
Member	
• Engaged in weekly discussions regarding microeconomics theories and global market trends.	
Investment Club	Lexington, MA
Member	Oct 2025 - Now
• Achieved second place in Oct 2025 investment simulation.	

SKILLS & INTERESTS

<u>Technical:</u>	Python (NumPy, Pandas, Matplotlib, Seaborn), C, SQL (SQLite, MySQL, PostgreSQL), Flask, Jinja, Markdown, HTML / CSS, SCSS
<u>Marketing:</u>	Inbound Marketing
<u>Language:</u>	Chinese (Native), German (A2)
<u>Tools:</u>	Jupyter, Colab, Excel, Git, VS Code, Github Pages
<u>Interests:</u>	Competitive soccer and strategic teamwork, Acoustic optimization for deep focus