Benjamin Ye

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EDUCATION

Northwestern University **Evanston, IL**
Bachelor of Science in Computer Science *Expected June 2025*
- Cumulative GPA: 3.51/4.00
- Relevant Coursework: Data Structures & Algorithms, Design Thinking and Communication, Engineering Analysis

WORK EXPERIENCE

Northwestern University Debate Institute **Evanston, IL**
Lab Leader *July 2022 – August 2023*
- Coached 30+ high school debaters from across the country in research and argumentation on topics such as artificial intelligence, biotechnology, cybersecurity, economic inequality, international relations, and current events
- Formulated lectures on debate theory and organized drills on speaking mechanics and argument generation
- Led the largest lab by evaluating practice speeches, judging daily practice debates, and hosting evening office hours

Resident Assistant *July 2023 – July 2023*
- Worked with other resident assistants to manage and foster connections in a residence hall of ethnically diverse high school debaters
- Implemented and enforced Residence Hall Policies in an equitable manner, promoting a safe and open community
- Employed mediation and interpersonal skills to resolve conflicts between students and provide guidance over issues

Self-Employed **Sammamish, WA**
Private Tutor *December 2021 – July 2022*
- Taught students 1-on-1 to improve comprehension and problem-solving skills in computer science and mathematics
- Monitored and evaluated students' learning styles to create individualized study plans and explanations
- Utilized communication skills to provide weekly reports about student growth to parents

EXTRACURRICULARS

Northwestern University Debate Society **Evanston, IL**
Varsity Debater *August 2022 – Present*
- Travel and engage in debates and dialogue with teams from other colleges such as Harvard, Emory, and UC Berkeley
- Research topics such as legal personhood for artificial intelligence, AGI alignment, digital forensics, and decentralized autonomous organizations by analyzing law reviews and academic journals

PERSONAL PROJECTS

Personal Website (HTML, CSS)
- Designed and wrote a website that serves as a personal portfolio
- Implemented responsive design techniques to optimize readability and scaling for different screen sizes and devices

Counter-Strike Investment Tracker (React, JavaScript, HTML, CSS)
- Used React and Vite to design and create a web app that tracks a user's Counter-Strike related investments
- Integrated Steam web hook calling to update the current market prices of a user's investments on demand

OpenStreetMap Navigation API (C, C++)
- Developed back-end functionality to represent a user-inputted map from OpenStreetMap with various data structures (C++ maps, dynamic arrays, sets) and perform basic search queries
- Used various algorithms (Dijkstra's algorithm, binary search) to compute the shortest pathway between two points

TECHNICAL SKILLS

Programming Languages: C, C++, CSS, HTML, Java, JavaScript, MATLAB, Python, Racket
Software/Tools: React.js, Visual Studio, Visual Studio Code, Vite, LaTeX, Microsoft Office (Word, PowerPoint, Excel)

ADDITIONAL INFORMATION

Awards: John B. Kirk Award, Milton S. Florsheim Prize
Interests: Bunnies, Ferrets, Piano, Speedcubing, Debate, US-China Relations, Legal Personhood, Counter-Strike, Valorant