Benjamin Ye

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EDUCATION

Northwestern University   **Evanston, IL**
Bachelor of Science in Computer Science   *Expected June 2026*
- Cumulative GPA: 3.63/4.00
- Relevant Coursework: Compiler Construction, Intro to AI, Intro to Databases, Data Structures & Algorithms

TECHNICAL SKILLS

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

WORK EXPERIENCE

Northwestern University Department of Computer Science   **Evanston, IL**
Peer Mentor   *January 2024 – Present*
- Devoting 6-10 hours per week to assist 200+ students in COMP_SCI 348 (Intro to AI) in understanding course material
- Offering personalized 1-on-1 guidance through regular office hours to help students cement understanding of course content and debug complex code
- Actively engaging with student inquiries on Piazza to promptly address questions and deliver thorough explanations to clarify subject matter, contributing to an effective learning environment beyond traditional class hours

Northwestern University Debate Institute   **Evanston, IL**
Lab Leader   *July 2022 – August 2023*
- Coached 50+ high school debaters from across the country by formulating lectures on debate theory and structuring targeted drills to build proficiency in debating topics such as artificial intelligence, cybersecurity, and current events
- Led the largest lab by evaluating practice speeches, judging daily practice debates, and facilitating evening office hours to refine students' speaking mechanics and argument generation skills
- Directed the camp tournament by overseeing logistics, ensuring a seamless and engaging experience for all students

PERSONAL PROJECTS

PairingsBot (Python)
- Built a Discord bot used by Northwestern's Debate Society using discord.py, streamlining the debate competitor experience by automatically sending debate tournament pairings to a dedicated Discord channel
- Employed BeautifulSoup4 and Tabroom's API to scrape round information from Tabroom with minimal network strain
- Demonstrated proficiency in programming best practices by performing iterative testing across multiple tournaments and writing comprehensive usage documentation on GitHub to ensure code maintainability and simplify future development

Counter-Strike Investment Tracker (React.js, Typescript)
- Developed a user-focused web app utilizing React.js and Vite, offering tracking of a user's Counter-Strike investments
- Integrated Steam API calls to dynamically update investment values, providing real-time market prices on demand
- Implemented data upload and download functionalities, allowing users to effortlessly save and restore their data, enhancing convenience and data management within the website

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
- Applied various algorithms (Dijkstra's algorithm, binary search) to compute the shortest pathway between two points

EXTRACURRICULARS

Northwestern University Debate Society   **Evanston, IL**
Varsity Debater   *August 2022 – Present*
- Travel and engage in debates and dialogue with teams from 90+ 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

ADDITIONAL INFORMATION

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