

Eric A. Du

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Objective Aspiring software engineer, passionate about creating innovative solutions and eager to contribute to a dynamic team.

Education **Carnegie Mellon University** **2022-2026**
Bachelor of Science in StatML and Computer Science (Anticipated in 2026)
GPA: 3.79, Dean's List (3 Semesters)
Key Skills:

- Programming Languages: C, C++, Python, Java, R, SQL, ruby
- Libraries: Panda, Numpy, Matplotlib, Tkinter, Computer Vision
- Tools: Git, Unity, Postgres

Relevant Courses:

- Fundamentals of Programming
- Principles of Imperative Programming
- Functional Programming
- Introduction to Computer Systems
- Database Design and Development
- Application Design and Development
- Concepts of Mathematics
- Probability
- Calculus in Three Dimensions
- Matrices and Linear Transformation

Projects **AI-Integrated Course Selection Tool** Aug. 2023 – Present

- Developing an tool which integrates generative AI to help students optimize their course selection process.

Fire Emblem - CMU 112 Nov. 2022 - Dec. 2022

- Designed and implemented a turn-based tactical role-playing game with Object-Orientated programming, pathfinding AIs, and a diverse set of units.

C0 Virtual Machine July 2023 - Aug. 2023

- Developed a virtual machine using C to provide a safer version of the language for beginners.
- Eliminated function pointers, type masking and implemented garbage collection to prevent memory leaks.

Community Involvement **Stepping Stone** *Volunteer/Teacher* July 2021 - Aug. 2022

- Organized and conducted English classes for roughly 30 migrant children who have limited opportunity to learn English.
- Planned weekly structured lessons and immersive activities.
- Progressed children from barely being able to make self-introductions to successfully performing of a scene from 'Zootopia' entirely in English.

Anti-Racism Initiatives *Organizer* Oct. 2021 - Mar. 2022

- Identified prevalent racist humor and insensitivity in my high school.
- Initiated and co-presented a series of anti-racism activities to the entire school, emphasizing the repercussions of racial insensitivity.

Volleyball & Track Team *Captain* Sep. 2020 - June 2022

- Initialized and organized morning practices and team dinners as team captain to enhance team performance and cohesion.
- Led recruitment efforts and training of new members to address the COVID-19-induced shortage of experienced players.
