

Aria Shi

ariashi@u.northwestern.edu | (978) 505-3178 | [linkedin.com/in/aria-shi/](https://www.linkedin.com/in/aria-shi/) | github.com/ariashi15 | ariashi15.github.io/portfolio/

EDUCATION

Northwestern University

Evanston, IL

- GPA: 3.98/4.0 | Major GPA: 4.0/4.0 | B.A. in Computer Science and Economics *Expected June 2026*
- **Relevant coursework:** Data Structures and Algorithms, Discrete Math, Computer Programming with Python, Computer Programming with C/C++, Multivariable Differential Calculus
- **Activities:** Project Lead at Lambda Strategy, Cultural Chair of Chinese Students' Association

WORK EXPERIENCE

Northwestern University

Evanston, IL

Teaching Assistant for CS 111: Fundamentals of Computer Programming

Sept 2024 – Dec 2024

- Taught students the basics of functional and imperative programming through weekly office hours and tutorial sessions
- Led small-group discussions on topics surrounding ethics in technology such as accessibility, identity, and accountability

PrizeSole

Evanston, IL

Software Engineering Intern

June 2024 – Aug 2024

- Developed iOS app with team of 4 from the ground up for e-commerce start-up using Swift and SwiftUI
- Designed UI from scratch using Figma, continuously iterated on design to optimize functionality and improve user flow
- Coordinated Git version control with team to collaborate smoothly on the implementation of new features

Lumos Debate

Lexington, MA

Director

July 2021 – Aug 2024

- Managed teams of 8+ instructors in sessions enrolling 40+ students, communicated with parents and rental contacts
- Delivered quality student experience rated on average 9.1/10 by adapting curriculum via daily meetings with instructors
- Evaluated and addressed students' strengths/weaknesses, wrote 450-600 word progress reports to parents for each student

PROJECTS

Web Portfolio | React Native, Tailwind CSS, Figma

January 2025

- Built React web app with elements styled using Tailwind CSS to display personal projects and experiences

Pixel Sketchbook | JavaScript, HTML, CSS, Git, GitHub

September 2024

- Developed an interactive pixel art sketchbook using HTML/CSS and JavaScript, with Git version control
- Implemented support for hover-to-draw functionality and opacity-based drawing to simulate layered strokes
- Created responsive and customizable grid layout, ensuring optimal rendering across screen sizes

Trip Planner | Data Structures Student Language (DSSL2), DrRacket

May 2024

- Developed a trip planner from a DSSL2 interface, provided routing/searching services based on user-defined map data
- Selected, designed, and implemented data structures and algorithms from scratch to support 3 types of queries
- Produced design documentation including entity-relation diagrams, ethical considerations, and analyses of alternatives

Open Street Map Navigator | C++, Google Test

April – May 2024

- Built a navigator for an open street map of Evanston, parsed map with TinyXML to retrieve node information
- Extracted definitions for buildings and footways based on nodes; implemented support for map searching using C++
- Integrated Chicago Transit Authority's bus API to provide real-time bus information for stops nearest to any given building

Python Execution Environment | C, Google Test

March – April 2024

- Developed an execution environment using C for a subset of the Python language defined with BNF
- Built a recursive-descent parser to interpret Python code, identify syntax errors, and return error information for the user
- Implemented an executor that included support for function calls, binary expressions, assignment statements, and while loops
- Created a memory management module to write and read objects to memory; handled memory deallocation to prevent leaks

SKILLS AND INTERESTS

- **Programming Languages:** Python, C, C++, Swift/SwiftUI, JavaScript, HTML, CSS
- **Frameworks and Technologies:** React, PostgreSQL, Tailwind CSS, Unix, Git, Github, Figma, Google Test
- **Interests:** Figure Skating, Sudoku, Puzzles, Drawing, Graphic Design, Traveling, Entrepreneurship