

# Aria Shi

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## EDUCATION

### Northwestern University

*B.A. in Computer Science and Economics*

Evanston, IL

*Expected June 2027*

- **GPA:** 3.99/4.0, **Major GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Machine Learning, Computer Systems, Parallel Computing, Human Computer Interaction
- **Activities:** Fullstack Developer at DISC, Project Lead at Lambda Strategy, Community Development Chair of Chinese Students' Association, Tutor at NU Heights

## EXPERIENCE

### Capital One

June 2025 - Present

*Software Engineering Intern*

*McLean, VA*

- Expand account Status Hub to support multi-type card decline alerts for small business cardholders
- Refactor existing messaging infrastructure and Status Hub API to seamlessly handle different decline scenarios
- Employ Agile methodologies and task tracking with Jira to collaborate efficiently with team of 4
- Implement end-to-end testing workflows and conduct QA cycles to ensure readiness for production

### Develop and Innovate for Social Change (DISC)

Jan 2025 – Present

*Fullstack Developer*

*Evanston, IL*

- Develop CRM system for North Shore Senior Center with team of 6 using React, Express, and Supabase
- Own frontend design of 20+ pages; iteratively prototype using Figma in close collaboration with client
- Lead design and implementation of relational database schema for managing participants, activities, and users
- Build role-based access control in compliance with HIPAA and admin dashboard to monitor platform activity

### Northwestern University

Sept 2024 – June 2025

*Teaching Assistant for CS110 and CS111*

*Evanston, IL*

- Taught 10+ students object-oriented and functional programming through weekly office hours and tutorial sessions
- Led small-group discussions on topics surrounding ethics in technology such as accessibility and accountability

### PrizeSole

June 2024 — Aug 2024

*Software Engineering Intern*

*Evanston, IL*

- 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, iterated on design to optimize functionality and improve user flow

## PROJECTS

### Image Contrast Stretcher | C++, OpenMPI

May 2025

- Leveraged MPI to parallelize a contrast stretching algorithm, achieving near-linear speedup (6x for 8 processes)

### Farmstand | React, Tailwind CSS, Git, Express, PostgreSQL, Supabase

Apr 2025

- Led development of full-stack React app with team of 4 connecting local farmers to consumers in 24-hr hackathon
- Architected backend and APIs, designed a PostgreSQL database to model farms, products, and inventory
- Wrote 5 RESTful endpoints for fetching farm/product information and adding/updating inventory

### Web Portfolio | React, Tailwind CSS, Figma

Jan 2025

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

### Open Street Map Navigator | C++, Google Test

Apr – May 2024

- Built a map navigator of Evanston; extracted definitions for landmarks; implemented support for map searching
- Integrated CTA bus API to provide real-time bus information for stops nearest to any given building

### Python Execution Environment | C, Google Test

Mar – Apr 2024

- Developed an execution environment for Python including a parser, executor, and memory management module

## SKILLS AND INTERESTS

**Programming Languages:** Python, C, C++, Swift/SwiftUI, JavaScript, HTML, CSS

**Frameworks and Libraries:** React, Node.js, Express, Tailwind CSS, NumPy

**Tools and Technologies:** PostgreSQL, Supabase, Unix, Git, Figma, Docker, OpenMP, OpenMPI, Jira, AWS

**Interests:** Puzzles, NYT Games, Figure Skating, Sudoku, Drawing, Graphic Design, Traveling, Startups