Aria Shi

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EDUCATION

Northwestern University   Evanston, IL
B.A. in Computer Science and Economics   *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 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