

## Anya Gu

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### EDUCATION

**Rice University**, Houston, TX

May 2025

Double Major in Computer Science, Mathematics

**GPA:** 3.8/4.0

**Bridgewater-Raritan High School**, NJ

June 2021

**GPA:** 4.0/4.0 (unweighted); 4.9 (unweighted)

**Awards:** Rice University Clubs Member Engagement Award (2022)

National Merit Scholar Finalist (2021);

3rd Place in NJ Chemistry League Competition (2020);

2x U.S. Figure Skating Gold Medalist (2020, 2022)

Seal of Biliteracy in Mandarin Chinese

### RELEVANT COURSEWORK

Discrete Mathematics & Algorithms; Object Oriented Programming; Data Structures; Concurrent Programming; Computer Systems; Probability & Statistics, Differential Equations; Linear Algebra; Multivar. Calculus; Mathematical Analysis, Data Science; Computer Ethics

### TECHNICAL SKILLS

- Java, Spring Boot, Python, Node.js, React/React Native, GraphQL, SQL, C, JSON, XML, XSLT, HTML5/CSS, Pandas, NumPy
- Linux, MongoDB, Maven, Jenkins, Robot/Gherkin, Git, Jira, Docker

### RELEVANT EXPERIENCE & PROJECTS

**Citibank Summer Analyst Internship**

June 2023 - Present

- Global Functions Technology team; focused on the service aspect (backend) of Compliance Risk Management
- Utilized Oracle database and SQ; built microservices with Spring Boot
- Helped develop tool used by Citi businesses to facilitate risk assessment

**Nokia TechComm Tools Developer Co-op**

May 2022 - Present

- Developed Language Audit 2.0 for Nokia global tech leads and writers, automating the language checking process and increasing productivity.
  - Reduced work from 3+ hours to 3 seconds, enabling more efficient and streamlined documentation workflows.
- Designed and wrote Robot tests for LangAudit and provisioning repo for all document project setup
  - Refactored code to be more efficient and readable
  - Developed comprehensive test automation covering ~90% of code, ensuring reliable and robust performance
- Utilized React, Python, Jenkins, Maven, DITA, DITA OT

**Rice University RiceApps Team Developer**

September 2021 - Present

- Developed mobile/web application for Rice students to easily arrange carpools and split costs
  - Attracted over 1000 users within first week of release
- Worked on both frontend and backend using Node.js, React.js, Cloud MongoDB, GraphQL
- Designed and coded the profile page, and communication between frontend and backend
  - Designed and implemented security and authentication for accessing data in the cloud
  - Designed and created database schemas in MongoDB database to manage user information

**Technical Lead RiceApps**

May 2023 - Present

- Mentoring team of 10 developers to create online marketplace web application for Rice students
- Oversee frontend and backend development using Node.js, React.js, MongoDB, GraphQL
- Test and approve all pull requests through GitHub

### Web Proxy Project

- Designed and implemented a concurrent web proxy in C that acts as a middleman between client and server
- Proxy supports both HTTP/1.0 and HTTP/1.1 requests and HTTP GET method
- Implemented concurrency using a prethreading approach to ensure optimal performance and responsiveness.
- Performed thorough testing with real browsers and web pages, including handling errors gracefully and preventing resource leaks
- Utilized the RIO (Robust I/O) package and standard I/O calls to enable efficient I/O operations.

**Rice University Ice Skating Club Founder and President** (300+ members)

- Founded the first ice-skating club at Rice University
  - Became the biggest and one of the most active clubs in Rice within the first semester

- Organized multiple successful skating events with 400+ attendees
- Led and organized popular ice-skating clinics with 100+ attendees

#### **OTHER WORK**

Orientation (New Students) Advisor,	Rice University, TX	August 2022 - Present
Figure Skating Coach,	Protechockey Ponds Training Center, NJ	September 2018 - Present
English teacher for non-English speakers,	Dansummit Inc, CA	September 2017 - September 2021