

# Anya Gu

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## EDUCATION

### Rice University

Bachelor's Degree – Computer Science, Mathematics (Double Major)

May 2025

GPA: 3.8/4.0

## TECHNICAL EXPERIENCE

### Citibank

Software Engineer Intern (Enterprise Operations and Technology Analyst)

June 2023 - Aug 2023

- Developed an internal tool to assess financial risk at individual business level and aggregate to company level
  - Utilized Oracle database, **SQL**, **Java**, **Spring Boot**
- Designed and implemented application to track and display user information utilizing **Angular**, **Java Spring Boot**, **H2**
- Collaborated on distributed backend services for Global Functions Technology team

### Nokia

Software Developer Co-op

May 2022 - May 2023

- Developed a **Python** service that automates the language checking process
  - Matched the contents of arbitrary file types against a set of user inputted regular expressions to identify sensitive language
  - Reduced process time from 3 hours to 30 seconds for Nokia global tech leads
- Implemented an automated test framework **Robot** tests for an existing service
  - Developed comprehensive units tests covering 90% of code, ensuring reliable and robust performance
  - Refactored the service to be more efficient and readable
- Utilized **React**, **Python**, **Jenkins**, **Maven**, **DITA**, **DITA OT**

### RiceApps (Extracurricular)

OwlMart Technical Lead – <https://github.com/rice-apps/owlmart>

May 2023 - Present

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

Carpool Developer – <https://carpool.riceapps.org>

Sept 2021 - 2022

- Developed a web application for Rice students to easily arrange carpools and split costs
  - Attracted over 1,000 users within first week of release
- Developed frontend and backend features using **Node.js**, **React.js**, **MongoDB**, **GraphQL**, and **JavaScript**
  - Built 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

### 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

## RELEVANT COURSEWORK

Discrete Mathematics & Algorithms; Object Oriented Design; 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, Go, Node.js, React.js, GraphQL, SQL, Angular, C, Flutter, JSON, SML, HTML5/CSS, Pandas,
- Linux, MongoDB, Maven, Jenkins, Robot/Gherkin, Git, Jira, Docker

## OTHER EXPERIENCE

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

- Rice University Clubs Member Engagement Award (2022)
- Undergraduate Organization of the Year Nomination (2023)
- Organized multiple successful skating events with 400+ attendees
- Led and organized popular ice-skating clinics with 100+ attendees

## AWARDS

National Merit Scholar Finalist (2021);  
2x U.S. Figure Skating Gold Medalist (2020, 2022)

3rd Place in NJ Chemistry League Competition (2020);  
Seal of Biliteracy in Mandarin Chinese