

# Alan Wang

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## EDUCATION

### Rochester Institute of Technology GPA: 3.5/4.0

Rochester, NY

*Bachelor of Science in Computer Science*

*Expected December 2025*

- **Relevant Coursework:** Mechanics of Programming, Computer Science Theory, Data structures and Algorithms, Intro to Software Engineering, Programming Language Concepts, Distributed Systems, Principle of Data Management, Intro to AI, Intro to Computer Graphics, Database System Implementation

## EXPERIENCE

### Software Engineer Intern

August 2024 – Present

*Georgia Tech Research Institute*

*Huntsville, AL*

- Configured **Docker** containers as part of a **CI/CD** pipeline to increase development build speed by 30 minutes.
- Resolved 300+ **Fortify** vulnerabilities with **C++** to optimize application security, support regulatory compliance.
- Supported release branch maintenance by conducting code reviews, ensuring stability, high-quality deployments.

### Software Engineer Intern

August 2023 – Dec. 2023

*Georgia Tech Research Institute*

*Huntsville, AL*

- Effectively developed and maintained **automation** test scripts with **Pytest** to ensure a **80%** code accuracy.
- Modernized **UI** components using **Node.js** to enhance user experience and increasing application performance.
- Worked in a **Agile** team following the **Software-Development-Lifecycle(SDLC)** to deliver new features.

### Software Course Assistant (GCIS-124)

January 2023 – May 2023

*Rochester Institute of Technology*

*Rochester, NY*

- Collaborated with a professor to deliver course materials and facilitate an introductory **Java** class of 30 students.
- Assisted first-year students by **troubleshooting** code, leading to an improvement in assignment completion rates.
- Boosted student performance through targeted feedback on Software Engineering processes student performance.

## PROJECTS

### Bookstagram | *MongoDB, Express, React, Node.js, GoogleAPI*

- Developed a scalable social platform with **MERN** and **Google APIs**, supporting seamless user experiences.
- Utilized the Mongoose library to store books/user schema into **MongoDB** using **SHA-512** encrypted passwords.

### ClubMate | *Python, Discord.py*

- Leveraged **Discord.py API** to deliver embedded messages directly to users, increasing engagement rates to **100%**
- Integrated real-time update capabilities providing live event alerts leading to improved information accessibility.

### BrickSQL | *Python, PostgreSQL, Pytest*

- Designed SQL databases for an **CLI** program, improving query performance by **15%** and ensuring data integrity
- Designed and executed **SQL** queries enabling personalized movie recommendations by using various analytic.

### Fruit Store | *Java, Spring Boot, Angular, Typescript, JUnit*

- Built an E-store web application using **REST API** and **MVVM** architecture with agile methodologies.
- Developed comprehensive **JUnit** test scripts, attaining a **95% code coverage** rate, enhancing software reliability

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, HTML, CSS

**Frameworks:** React, Node.js, Express.js, JUnit, Pytest

**Developer Tools:** Git, Podman, Docker, PostgreSQL, MongoDB

**Concepts:** Back-End Development, Front-End Development, Software Engineering, Agile, version control, Full Stack Web Developer, Object-Oriented Design, Databases, Testing, Documentation