

# Alan Wang

[aw2755@rit.edu](mailto:aw2755@rit.edu) | [linkedin.com/in/wang-alan](https://linkedin.com/in/wang-alan) | [github.com/aw2755](https://github.com/aw2755) | [aw2755.github.io/alan\\_wang](https://aw2755.github.io/alan_wang)

## EDUCATION

### Rochester Institute of Technology

*Bachelor of Science in Computer Science(GPA 3.54)*

Rochester, NY

*Expected December 2025*

## TECHNICAL SKILLS

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

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

**Developer Tools:** Git, Postman, Docker, PostgreSQL, MongoDB, AWS, Treasure Data, Tableau, Terraform

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

## EXPERIENCE

### Rochester Institute of Technology

Aug. 2025 – Present

*Software Course Assistant (GCIS-123)*

*Rochester, NY*

- Collaborated with professor to deliver course materials and facilitate an introductory **Python** 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 and Software designs.

### Honeywell

June. 2025 – Aug. 2025

*Embedded Software Engineer Intern*

*Acton, MA*

- Executed comprehensive testing on new device version to ensure stability, and compatibility with latest **firmware**.
- Coordinated with third-party software developers to troubleshoot and resolve critical **web application** issues.
- Maintained and enhanced **legacy codebase** from 2004, ensuring continued functionality with modern systems.

### Boehringer Ingelheim

Jan. 2025 – May 2025

*IT Data Scientist/Software Developer Intern*

*Ridgefield, CT*

- Built automated **AWS** infrastructure with **Terraform**, enabling repeatable, scalable, and reliable deployments.
- Imported and transformed large datasets into **Tableau** to create clear, interactive visualizations for analysis.
- Communicated with clients to gather and refine data requirements, ensuring solutions aligned with business needs.

### Georgia Tech Research Institute

Aug. 2023 – Dec. 2024

*Software Engineer Intern*

*Huntsville, AL*

- Configured **Docker** containers as part of a **CI/CD** pipeline to increase development build speed by **15%**.
- Resolved 300+ **Fortify** vulnerabilities with **C++** to optimize application security, support regulatory compliance.
- Effectively developed and maintained **automation** test scripts with **Pytest** to ensure a **80%** code accuracy.

## PROJECTS

### Rate-My-Courses | *Vue, Node.js, PostgreSQL, JavaScript, HTML, TailwindCSS*

- Built a platform for students to rate and review courses, enabling informed and transparent course selection.
- Designed and implemented modern responsive **UI/UX** interfaces ensuring quality user experiences across devices.

### Inventory Manager | *React, Next.js, Node.js, PostgreSQL, TypeScript, HTML, TailwindCSS, AWS*

- Programmed a full-stack web application with **CRUD** functionalities, **AWS RDS** for relational data handling.
- Deployed using **AWS EC2** instances for hosting backend services, and **AWS S3** for secure file and image storage.

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

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

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

- Leveraged **Discord API** to implement embedded messages, enhancing user interaction and engagement.
- Integrated real-time update capabilities providing live event alerts leading to improved information accessibility.

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

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