

Alan Wang

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EDUCATION

Rochester Institute of Technology GPA: 3.5/4.0

Rochester, NY

Bachelor of Science in Computer Science

Aug. 2020 – Dec. 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

Research and Development Intern

August 2023 – Present

Georgia Tech Research Institute

Huntsville, AL

- Effectively developed and maintained automated test scripts, including unit tests, to validate over 30 functionalities, ensuring code reliability and accuracy.
- Configured Docker containers as part of a CI/CD pipeline and version control system, streamlining the setup process, reducing installation time by 20%, and enhancing application portability and scalability.
- Worked in Agile teams, following the Software Development Lifecycle (SDLC) to deliver features efficiently through sprint planning, stand-ups, and retrospectives.

Software Course Assistant (GCIS-124)

January 2023 – May 2023

Rochester Institute of Technology

Rochester, NY

- Provided comprehensive feedback to 20 students on assignments about several aspects of the Software Engineering process including Junit, Maven, Object Oriented Design, and Design Documentation.
- Assisted students with problems related to instruction, technologies, understanding and project management.
- Acquired proficiency in troubleshooting and debugging code written by first year students.

PROJECTS

BrckBook | *Express, React, GoogleAPI, MongoDB*

- Conceptualized and implemented a MERN application to build a social platform for book readers. This platform allows users to keep track of 100+ books they have read, comment, and obtain recommendations from contacts.
- Formulated Google Books API to generate relevant information for 40 books based on a user inputted string.
- Imported the Mongoose library to store books/user schema into MongoDB using SHA-512 encrypted passwords.

Badminton Club Manager | *Python, Discord.py*

- Communicated with executive members to develop and maintain an organized system of player rotations for over 100 members distributed over 4 courts within a 2 hour long activity session.
- Introduced queue, join, leave, create, and show commands capabilities to enable smoother member experience which helps 30+ club members by allowing those who are introverted to be included.
- Utilized the Discord.py API to send embedded messages directly to users to prevent spamming and alerts members on where they are on the queue with an estimated time.

The Brick | *Python, PostgreSQL, DataGrip*

- Programmed a fullstack CLI application using Python to forward 20 different queries through PostgreSQL.
- Conducted regular meetings with database and application development team every week to write code test to resolve recurring issues which helps maintain a 95% code coverage.
- Integrated functionalities to make recommendations based on various analytic such as most view, most liked, times watched, and overall rating for recommending movies by name, genre, rating, and directors.

Fruits Store | *Java, Spring Boot, Angular, Typescript*

- Designed a fruit E-store application using REST API with the Model-View-View-Model architecture.
- Applied Agile Scrum methodology, utilized tools like Trello and Slack, and conducted regular stand-up meetings to facilitate efficient software engineering processes.
- Implemented a JavaScript local storage solution for CRUD functionality and persistent data using JSON.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, PostgreSQL and MySQL, MongoDB, JavaScript, HTML, CSS, TypeScript

Frameworks: React, Express.js, JUnit, Pytest, Docker, Angular, Selenium

Developer Tools: GitHub, VS Code, PyCharm, IntelliJ, DataGrip, GitLab, Jira, Confluence, Box, GitLab CI