

Brian Lin

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EDUCATION

Rochester Institute of Technology

Rochester, NY

Bachelor of Science in Computer Science, GPA: 3.6

Expected May 2025

- **Courses:** Programming Language Concepts, Computer Systems, Introduction to Software Engineering, Machine Learning, Data Structures & Algorithms, Computer Graphics, Database Implementation, Computer Vision

EXPERIENCE

Leidos

June 2024 – Present

Software Engineer Intern

Bethesda, MD

- Integrated over **10 unit tests** in **C++** to maintain high code quality, and ensure expected functionalities
- Enforced **code consistency** over all projects by introducing a Python formatter into the **CICD pipeline**
- Modernized over **10 projects** by updating its build processes to use **Docker** and **Kubernetes**

Rochester Institute of Technology

Feb 2024 – May 2024

Undergraduate Researcher

Rochester, NY

- Collaborated with Professor Xumin Liu to develop a Data Science Teaching platform for Non-Computing Majors
- Created an interactive quiz module feature for the platform with **React**, **Flask**, and **MongoDB**, providing teachers with effective tools to assess students' progress and engagement
- Designed **5+ RESTful API** endpoints to enable seamless communication between frontend and backend

Leidos

May 2023 – December 2023

Software Engineer Intern

Bethesda, MD

- Engineered an acoustic visualization page using **React**, and integrated **WebSockets** for real-time data streaming
- Modernized a **React** app with functional components and migrated to Vite, cutting the bundle size by **10%**
- Developed an internal tool using **C++**, enabling efficient visual comparisons between versions of PureData files
- Created a **Gitlab CI/CD** pipeline, speeding up delivery builds by **72%** through **automation** and **caching**

Rochester Institute of Technology

January 2023 – May 2023

Course Assistant

Rochester, NY

- Collaborated with a professor and another assistant to facilitate an introductory Java course for **30 students**
- Guided students in overcoming technical challenges in both class and mentoring sessions
- Offered targeted feedback on assignments and exams, emphasizing **Object-Oriented principles**, **UML diagrams**, and best coding practices to enhance students' comprehension and performance

PROJECTS

AI Tutor (Microsoft AI Classroom Hackathon) | *React, Azure AI, CosmosDB, Express.js, Python, Flask*

- Developed an AI-driven quiz platform for real-time knowledge assessment based on user notes using **React**
- Integrated **Azure AI** (Vision, Language) and blob storage for extracting, summarizing, and storing notes

RecipeGenius | *Next.js, AWS Lambda, API Gateway, Tailwind CSS, OpenAI, React*

- Developed a recipe generation app tailoring unique recipes to users' available ingredients with **Next.js**
- Established a serverless backend for efficient API handling using **Lambda** and **API Gateway**

AviCenna (HopHack 2023) | *Flask, HTML, CSS, JavaScript, OpenAI*

- Crafted a chatbot app fostering patients' confidence in questioning doctors with **HTML**, **CSS**, and **JavaScript**
- Reduced hallucination in responses by **30%** by fine-tuning an OpenAI model to generate doctor-like responses

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

- Built an E-store web application using **Angular** and **Spring REST API** services with agile methodologies
- Achieved **95% code coverage** by integrating unit testing to ensure code quality using **JUnit**

SKILLS

Languages: Java, Python, C, C++, Golang, JavaScript, TypeScript, HTML, CSS

Frameworks: React.js, Node.js, JUnit, Express.js, Jest, Spring Boot, Flask

Developer Tools: Git, MongoDB, Postman, Docker, AWS, Azure, PostgreSQL, Kubernetes

Concepts: Backend Development, Frontend Development, Software Engineering, Agile, Version Control, Cloud Services, Full Stack Web Development, Object-Oriented Design, Databases, Networking, Distributed Systems, API Development