

# Brian Lin

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## EDUCATION

### Rochester Institute of Technology

Rochester, NY

*Bachelor of Science in Computer Science*

*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*

- Refined a **C++** pass-band filter to isolate target frequency ranges in real-time acoustic signals, using **Fast Fourier Transform (FFT)** and phase response adjustments to resolve filtering inaccuracies and enhance signal clarity
- Integrated an existing **Kubernetes** management API as a **Go** plugin using **HTTP** endpoints, reducing code duplication and creating a consistent interface for cluster operations
- Standardized code quality through a **Python** formatter within the **CICD** pipeline, accelerating code reviews
- Improved deployment of legacy builds with **Python** and containerization, speeding up development by **10%**

### Rochester Institute of Technology

February 2024 – May 2024

*Undergraduate Researcher*

*Rochester, NY*

- Partnered with Professor Xumin Liu to develop a Data Science Teaching platform for Non-Computing Majors
- Built a quiz module with **React**, **Flask**, and **MongoDB**, enabling automated grading for student assessments
- Designed **5+ RESTful API** endpoints to enable seamless communication between frontend and backend

### Leidos

May 2023 – December 2023

*Software Engineer Intern*

*Bethesda, MD*

- Developed a **Gitlab CI/CD** pipeline, speeding up delivery builds by **72%** through **automation** and **caching**
- Redesigned an internal tool using **C++**, enabling efficient visual comparisons between versions of data files
- 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%**

### 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**
- Mentored students during in-class labs and one-on-one sessions, ensuring comprehension and skill-building in Java
- Delivered feedback on assignments and exams, focusing on CS principles to improve student performance

## PROJECTS

### RentBun | *React, Java, PostgreSQL, Spring Boot, Firebase, AWS S3, Docker, Nginx*

- Co-founded a platform designed to simplify the process of posting and finding student subleases with **40+ users**
- Optimized browsing with pagination and caching, improving performance and reducing load times by **52%**

### Meddy (Google AI Competition) | *React, Express.js, PostgreSQL, Flutter, Dart, Firebase*

- Contributed to a 12-member team on a cross-platform app that enhances patient-doctor communication
- Engineered chat functionalities in **Flutter**, integrating WebSocket for real-time text and image messaging

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

- Created 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

## SKILLS

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

**Frameworks:** React, 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