

Brian Yu

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EDUCATION

University of Connecticut | Storrs, CT

Graduation Year: May 2026

Bachelor of Science

Major: *Computer Science* | Minor: *Software Design*

GPA: **3.7/4.0**

RELEVANT COURSEWORK & SKILLS

- C++ Essentials, Intro Computer and Network Security, Intro to Computer Architecture, Cybersecurity Lab
- Technical Skills: Python, C++, C, C#, Java, Linux, SQL, RISC-V Assembly, HTML, CSS, Flask, VS Code, Microsoft Office
- Skills: Teamwork, Leadership, Coachable, Communication, Time management, English(Fluent), Mandarin(Conversational)

PROJECTS

Elevator Simulation Project

November 2024

- Developed the backend simulation in C++ by applying object-oriented programming principles, including abstraction, polymorphism, inheritance, and encapsulation.
- Designed and implemented a user interface using the Allegro game development library, integrating interactive buttons and a moving cabin to simulate elevator operations seamlessly

EXPERIENCE

UConn ITS Information Security Office | Storrs, CT

September 2024 – Present

Student Employee

- Monitor and respond to incoming ITS Jira ticketing system requests regarding security computer and network security issues for the University of Connecticut.
- Utilize Splunk Enterprise Security to manage and protect against user events; maintain compliance with Controlled Unclassified Information (CUI) handling protocols when required.
- Review and remediate OmniSOC reports to address vulnerabilities, collaborating with the security operations team to fortify network defenses

Undergraduate Teaching Assistant | Storrs, CT

August 2024 – Present

CSE 3100 – Systems Programming

- Conduct weekly lab sessions and office hours to assist students in their learning and understanding of how to program in C, and various systems programming topics; Grade assignments and exams, providing feedback.

UConn “BEACH” Tutor | Storrs, CT

August 2024 – Present

- Facilitate a welcoming environment for diverse students in the CSE department, enhancing a sense of community and belonging.
- Tutor and assist undergraduate students with Computer Science courses.

UConn Hackathon (HackUConn) | Storrs, CT

March 1, 2024 – March 2, 2024

Team: BHB - First Place Winner

- Developed, prototyped, and presented concepts of an AI automated oil containment device “SnAIke” that uses artificial intelligence and image classification to navigate itself through water around an oil spill.
- Collaborated effectively with my team of 3 during the 20-hour event, utilizing mentors and resources from the Werth Institute to brainstorm the theme of public safety threats. Additionally, oversaw the 3D printing of our prototype.
- Successfully tackled the issue of excessive manpower required for addressing oil spills by improving current solutions with an AI-driven autonomous device, securing first place, and earning a prize of \$2,000.

Gilmore Labs | Storrs, CT

October 2023 – May 2024

Research Assistant

- Collaborated with a team of software engineers to design and implement a cutting-edge, fully automated flow chemistry platform to enable remote access that supports both single and multi-step chemical processes.
- Utilized machine learning to develop and train prediction algorithms for reaction outcomes and predictions of reaction conditions to maximize selective outcomes to lower errors.
- Analyzed existing workflows to create potential process improvements to minimize error and maximize reproducibility and output.

LEADERSHIP EXPERIENCE

UConn Asian/Asian American Cultural Center | Storrs, CT

April 2023 – Present

Peer Mentor

- Assist incoming freshman Asian/Asian American mentees, providing comprehensive support to facilitate a successful transition into their first year of college, both academically and socially.
- Establish and nurture a secure and inclusive environment for mentees and mentors to explore and celebrate their cultural heritage while fostering personal growth and academic achievement.

Roan Program Student Leader | Boston, MA

July 2024 – August 2024

- Managed and supervised 50 Chinese international students, aged 13-17, during a month-long program, including serving as a resident assistant in the dormitories.
- Conducted educational tours around Boston, facilitating students' attendance at Harvard University and MIT classes.
- Coordinated and chaperoned field trips, and oversaw study halls, providing academic support with homework and assignments