

# Torrey Liu

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## TECHNICAL SKILLS

**Languages:** Java, Python, C++, HTML/CSS, LaTeX

**Developer Tools:** Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** PyGame, JUnit, React.js, Node.js, OpenAI, Discord.js

**Personal Skills:** Communication - Leadership - Teamwork/Collaboration - Problem-solving - Adaptability - Responsibility - Safety - Positivity - Patience - Curiosity - Creativity - Flexibility - Empathy - Knowledge Seeking

## EDUCATION

### York University

*Bachelor of Science in Computer Science*

Toronto, Ontario

*Sept. 2023 – April 2026*

### Carleton University

*Bachelor of Science in Computer Science*

Ottawa, Ontario

*Sept. 2022 – April 2023*

## EXPERIENCE

### Hardware Engineer Intern

*PCBest Networks*

May 2022 – May 2023

*Hybrid*

- Conducted server part replacement, repairs, and actively engaged in troubleshooting and debugging activities to ensure the optimal functionality of the company's server infrastructure
- Efficiently curated and assembled high-performance PCs by strategically planning and selecting cost-effective components for the company.

### Software Engineer Intern

*PCBest Networks*

May 2023 – Aug 2023

*Hybrid*

- Engineered chatbots for Discord, Slack, and WhatsApp using Python, integrating OpenAI's GPT-3.5-turbo for natural language processing
- Utilized conversation history to optimize responses, implementing a mechanism to retain and utilize the last 10 conversations for enhanced context awareness.
- Integrated the OpenAI API for dynamic content generation, ensuring a seamless flow of communication between users and chatbots.

### Club Head/Organizer

*Lisgar Collegiate Institute Computing Club*

Sept 2021 – June 2022

*Ottawa, ON*

- Instructed a club of 30+ members in utilizing Arduinos and circuit boards for diverse projects, fostering hands-on experience in Python and C++
- Passionately promoted programming and inspired club members to pursue their own creative projects

## PROJECTS

### Chat GPT Discord Bot | Backend | JavaScript, Node.js, Discord.js, OpenAI API

Jan 2023

- Successfully incorporated the OpenAI library to harness advanced AI functionality within the discord bot, enabling dynamic and context-aware conversations.
- Successfully deployed and maintained the bot in 6 Discord servers, enhancing user engagement through dynamic and intelligent interactions
- Implemented a responsive system, providing real-time feedback to users by simulating typing indicators during message generation
- Engineered the bot to selectively respond to user prompts based on specified channels and commands, ensuring a customized and contextually relevant experience

### Personal Portfolio Website | Frontend | HTML, CSS, JavaScript, Reactjs

November - Present

- Developed a dynamic and visually engaging website using JavaScript and React.js
- Leveraged my expertise in creating animation effects to enhance the user experience on both the frontend and backend
- Utilized React.js to build a responsive and intuitive frontend, enhancing the overall user interface and experience

- Implemented typewriter effects and photo album scrolling effects using JavaScript and CSS to create visually appealing effects, contributing to a more interactive and dynamic user interface

### **Two-Player Pong Game** | *Python, PyGame*

Jan 2023

- Successfully developed and deployed a fully functional two-player Pong game, emphasizing interactive gameplay and real-time user input.
- Programmed dynamic ball movement with collision detection against paddles and walls, creating an engaging gameplay experience

## NON-TECHNICAL EXPERIENCE

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### **Volunteer**

September 2023

*Hack the North*

*Waterloo, ON*

- Key contributor to a successful international event with 1000+ participants from 15+ countries
- Managed event logistics, including registration, setup, participant support, and catering
- Collaborated with teams to ensure smooth operations, serving 3000+ meals to participants
- Assisted in programming and hardware workshops to help participants tackle equipment and software issues.

### **Beach Volleyball Coordinator** | *City of Ottawa*

April 2023 - August 2023

- Experienced professional in organizing and managing volleyball leagues
- Strong managerial skills and dedication to superior customer service, proven ability to coordinate league activities, including net setup and maintenance
- Skilled in fostering positive customer relationships through effective communication and problem-solving
- Committed to delivering high-quality events and building a vibrant volleyball community

### **Asian Canadians Association Carleton** | *Event Photographer*

Sept 2022 - April 2023

- Experienced event photographer specializing in club and nightlife photography, adept at capturing candid moments to encapsulate the energy of events and skilled in post-processing. Recognized for strong communication, attention to detail, and adaptability to diverse club environments and lighting conditions

### **Carleton Mens Volleyball Club** | *Sports Photographer*

Sept 2022 - April 2023

- Experienced Volleyball Club Photographer skilled in capturing dynamic action shots and candid moments, proficient with advanced camera equipment and lighting techniques, and dedicated to effective collaboration, high-quality post-processing, and punctual project delivery

### **Lisgar Collegiate Institute Film Club** | *Club Founder*

Sept 2021 - June 2022

- Formed and managed a dynamic film crew of 12 passionate students skilled in photography, cinematography, video editing, and Photoshop
- Successfully executed school projects, including biweekly announcements, and collaborated with external organizations, such as The Door Youth Center and Rogers TV