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, Discord.py, Flask, Slack API
Personal Skills: Communication - Leadership - Teamwork - Problem-solving - Adaptability - Responsibility - Positivity

EXPERIENCE

Software Engineer Intern — May 2023 - Aug 2023
PCBest Networks — *Hybrid*

- Implemented chatbots designed for Discord, Slack, and WhatsApp using OpenAI's GPT-3.5-turbo in Python, Flask, and Slack API
- Enhanced conversation exchange through improved response that uses conversation history via the OpenAI API to generate content dynamically and provide a seamless response

Hardware Engineer Intern — May 2022 - May 2023
PCBest Networks — *Hybrid*

- Replaced server parts and did the required repairs while involving in the troubleshooting and debugging activity to actively maintain optimal functionality among the server infrastructure
- Configured effectual cost-effective components and strategically planned accurate selections for the optimization of high-performance PCs of the company

Club Head/Organizer — Sept 2021 - June 2022
Lisgar Collegiate Institute Computing Club — *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++

PROJECTS

Chat GPT Discord Bot | *Backend* | *JavaScript, Node.js, Discord.js, OpenAI API* — Jan 2023

- Incorporated the use of OpenAI library into the discord bot which ended up developing dynamic and context-based conversations with advanced AI functionalities
- Successfully deployed and maintained the bot across 6 Discord servers, increasing user engagements with dynamically intelligent interactions
- Implemented a responsive system for real-time user feedback, simulating typing indicators during message generation, and 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 CSS
- Leveraged my expertise in creating animation effects to improve the user experience on both frontend as well as backend
- Developed typewriter effects and photo album scrolling effects using JavaScript and CSS that makes the user interface more interactive and dynamic

Two-Player Pong Game | *Frontend/Backend* | *Python, PyGame* — Jan 2023

- Successfully developed and deployed an interactive two-player Pong game with dynamic ball movement, collision detection against paddles and walls, ensuring an engaging gameplay experience

EDUCATION

York University — Toronto, Ontario
Bachelor of Science in Computer Science — *Sept. 2023 – April 2026*

Carleton University — Ottawa, Ontario
Bachelor of Science in Computer Science — *Sept. 2022 – April 2023*