

Emily Carroso

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EDUCATION

University of Illinois at Chicago, Chicago, Illinois

Bachelors of Science, Computer Science

Expected: December 2023

KEY SKILLS

- Proficient in C, C#, C++, MatLab, Java, HTML, JavaScript, Sage, F#, SQL, and Python. Experienced with Unity, creating SharePoint sites, and designing Blackboard pages.
- Fundamental Courses: Data Structures, Probability and Statistics, Machine Organization, Languages and Automata, Software Design.

WORK EXPERIENCE

University of Illinois at Urbana Champaign / Discovery Partners Institute, Chicago, IL

August 2021 - Current

Research Assistant

- Contributed to a 360 degree video with augmented reality to teach nutrition to children.
- Worked on a team of peers to research how virtual reality can be used to treat depressive symptoms in lung cancer patients by converting a module-based mindfulness lesson plan into a VR game while working independently on music composition and scene design.

John Hopkins University Applied Physics Laboratory, Chicago, IL

May 2022 - August 2022

Intern / Unity Developer

- Developed code and a prototype HUD to allow users to change the input bindings in a submarine training simulation to better fit their preferences for video game controls.
- Revised and debugged a former intern's code to simulate a fire in a submarine for users to train for emergency situations.

University of Illinois at Chicago, Chicago, IL

June 2021 - May 2022

Research Assistant

- Ran a study on how college-aged women in computing fields could mentor young girls and ran a study on what middle school girls would want out of an out-of-school girls in tech program.
- Collaborated with a research partner in the design and implementation of the MyTurn program with the focus of encouraging middle school girls to get involved in computing-related fields. I designed the program curriculum with an emphasis on belongingness and computational thinking, tested and developed code for social robots to determine the robot with the best features for the program, created the wireframe for a digital tool to guide students through the development of their projects, and wrote a research paper on developing MyTurn.
- Worked on data entry for a study on how robots' gestures affect students' ability to solve geometric problems as well as analyzing and coding the videos from the study to determine the intercoder reliability.

US Soccer Federation, Chicago, IL

May 2021

Intern / Project Lead

- Led a team of four interns during a 3-week internship and served as the line of communication between two mentors and our group.
- Collaborated with my team as we developed and presented an intranet prototype for the company using SharePoint.
- Worked with all of the tech departments within the company doing various tasks such as updating and porting zoom phone numbers and creating email templates in Salesforce.

University of Illinois at Chicago, Chicago, IL

May 2020 - June 2020 & January 2021 - May 2021

Undergraduate Teaching Assistant & Course Builder

- Set up the Blackboard, homework assignments, projects, labs, exams, and set up other important tasks for an intro to Python course.
- Aided in teaching a semester-long course on Data Structures, hosted virtual help sessions each weekend, led 2 live coding labs weekly, evaluated live coding oral exams, and presented project breakdowns bi-weekly to aid students in starting new projects.
- Assisted in teaching a fast-paced 4-week course on MatLab, hosted 9 virtual help sessions for students each week, evaluated live coding oral exams, and regularly helped some struggling students understand new concepts and improve their grades.

KEY PROJECTS

MindfulMagic • Swift

November 2021

- Collaborated with a peer to create and present a mobile app at Technica Hackathon that was designed to combat the negative effects of social media by tracking social media app usage, send reminders to take breaks, raise mental health awareness, and provide resources to improve mental health. We won 3rd place for Social Vine Counter for Mental Health Protection.

Know! Parent Tips Hub • Javascript • Python • HTML • CSS • Flask • React

September 2021

- Teamed up with three peers to create a website at JPMC's Code For Good Hackathon for Prevention Action Alliance's Know! Parents Tips program in order to design a platform that allows for not only maximum outreach but also consistent feedback by incorporating a share feature and an admin dashboard with analytics to track web traffic.

Pluto's Maze Adventures • C#

May 2021- August 2021

- Created a game with original art and music that has the player controlling a dragon as they collect gold coins and search for treasure chests in mazes. This project was part of a collection of games made by a team of six.

AWARDS

Social Vine Counter for Mental Health Protection

November 2021

- Won 3rd place for a mental health mobile app created during Technica Hackathon

Dean's List

December 2019, May 2020, December 2020, May 2021, December 2021

- Made the Dean's List five consecutive semesters for achieving more than a 3.5 GPA.

Cyber FastTrack

April 2021

- Earned 500th place out of 1,590 contenders in a 48-hour cybersecurity competition and was invited to the Cyber Foundations Academy for a free summer course as part of their talent development program.

Google's exploreCSR with Break Through Tech Chicago

February 2021, April 2021

- In the top 3 for the CS team competition for two consecutive workshops.

STUDENT ORGANIZATIONS AND VOLUNTEERING

Member of the Association for Computing Machinery Student Chapter

February 2021 - Current

- Involved in the Video Game Design Special Interest Group.

Member of Women in Computer Science

January 2021 - Current

College Panhellenic Council

October 2019 - Current

- Formerly the President where my responsibilities were to preside at all meetings of the Panhellenic Council and Executive Board, communicate regularly with the Panhellenic advisor and NPC Area advisor, and oversee all officers and directors.
- Formerly the Vice President of Communications where my responsibilities were to record minutes of all meetings, keep an up-to-date roster of all members, oversee the Director of Diversity and the Director of Academic Excellence, and communicate and provide updates to all chapter advisors and presidents of the council.

Delta Phi Epsilon - Beta Rho Chapter

October 2019 - Current

- Formerly the Risk Management Chair where I assessed all risks at events and ensured the safety of attendees.
- Formerly the National Association of Anorexia Nervosa and Associated Disorders (ANAD) Chair where my responsibilities were to be in charge of all fundraising for our ANAD philanthropy as well as teach awareness and provide resources for eating disorders.
- Formerly the Captain of the Stroll/Dance Team where my responsibilities were to teach the history and culture behind Stroll and be in charge of holding auditions and teaching Stroll choreography for our annual competition.
- Formerly the Health and Wellness Chair where I ran programming with an emphasis on working out, eating healthy, and mental health awareness, provided an anonymous advice column, and held a competition to earn points by working out.

Member of Hip Hop Connexion Primo

September 2019 - May 2020 & September 2021 - Current

Volunteer as Choir Librarian for UIC Choir Program

January 2019 - March 2020

- Duties included organizing and distributing all sheet music and music folders to 100+ students while managing the sheet music library.