Victoria Rossi

victoria_rossi2@outlook.com

linkedin.com/in/victoriarossi2 · https://github.com/victoriarossi · https://victoria-rossi.vercel.app/

EDUCATION

University of Illinois at Chicago – Chicago, IL
B.S in Computer Science   Aug 2023 - Dec 2025 (Expected)
GPA: 4.0
Relevant Coursework: Natural Language Processing, Machine Learning, Computability and Complexity Theory, Software Engineering

RESEARCH EXPERIENCE

Department of Computer Science, University of Illinois at Chicago – Chicago, IL   Aug 2025 - Present
Researched empathy and sentiment expression in Spanish through primary sources. Collected and standardized multiple annotated sentiment datasets from Hugging Face, X, and travel and movie reviews. Fine-tuned BERT to test classification performance on a five-point scale (from 'Very Negative' to 'Very Positive'.) The goal was to identify a reliable dataset or demonstrate the insufficiency of existing Spanish resources, motivating the development of an improved sentiment dataset.

College of Engineering, University of Illinois at Chicago – Chicago, IL   Jun 2025 - Present
Compiled and analyzed data from UIC's K-12 summer engineering camps (2022–2025) to identify trends in student return rates and factors influencing continued participation. I also designed questionnaires for quality control and pre-camp and post-camp comparisons, surveying what students enjoyed or would have liked to see, which will be a part of the next iteration. These questionnaires are approved by the IRB and will continue to be used after I leave.

TEACHING AND MENTORING EXPERIENCE, UIC

CS 301 - Languages and Automata
Head TA (Spring 2024, Fall 2024, Spring 2025, Summer 2025)
~ 300 students
This course is the second installment of the theory branch in UIC's curriculum, and does not include programming assignments. I was the TA four times, in which I oversaw 10-15 TAs and guest lectured on multiple occasions. I instructed lab, midterm, and final exam review sessions. I authored new lab problem sets, homeworks, and participated in exam design. I presented these materials to my TAs during meetings that I hosted each week. I also designed major overhauls to rubrics for each of the aforementioned, and maintained the autograders for each.

CS 107 - Introduction to Computing and Programming in C
Undergraduate TA (Fall 2024)
~ 200 students
This course is taught to all engineering majors excluding Computer Science. I guest lectured twice: recursion in C and object-oriented programming. I held lab sections every week and created lab assignments in C along with their corresponding autograders. I helped design exams and study guides, where I also graded and proctored them.

CS 141 - Program Design I
Undergraduate TA (Summer 2025)
~ 25 students
This course includes introductory data abstraction and modular design; recursion; lists and stacks; dynamic memory allocation; file manipulation; programming exercises. I held weekly labs which consisted in a review session and a quiz. I managed groups projects by meeting bi-weekly to monitor progress. I evaluated the groups through a "technical interview" style of questions which I piloted for the first time in this course.

CS 341 - Programming Language Design and Implement
Undergraduate TA (Fall 2025)
~ 310 students
This course teaches different programming paradigms using Python, SQL, F#, and Go. I guest lectured on introductory Go programming and assisted in organizing a new exam environment which consisted of hybrid exams.

WiCS Aspire to Inspire Mentorship Program
Mentored freshman and sophomore Computer Science students to ease their transition into job application season. Provided guidance on course selection and academic planning, assisted in designing a personal portfolio, CV/resume, and identified research opportunities and pursuing personal projects. Offered interview preparation (mock technical interviews) and career development support.

Guest Lectures
CS 107 - Recursion in C, 200 students
CS 107 - Object-oriented Programming, 200 students
CS 141 - Review Sessions, 24 students
CS 301 - Context-Free Grammars, 300 students
CS 301 - Chomsky-Normal Form, 300 students
CS 301 - Midterm and Final Exam Review Sessions, 50 students
CS 341 - Introduction to Go, 310 students

Other TA experience
Engineering Summer Camp (Summer 2025) ~ 150 students

PROFESSIONAL EXPERIENCE

Machine Learning Intern - Illinois Department of Transportation   Apr 2024 - May 2024
I leveraged various LLMs to summarize and enhance weather reports, improving content clarity and accessibility. To ensure the most effective solution, I tested different models, selecting the one that best enhanced user engagement. Additionally, I made an estimation of cost per token and API accessibility to propose a model recommendation tailored to the use case.

TECHNICAL SKILLS

Python, BERT transformers, TensorFlow, Java, C++, SQL, React, JavaScript, HTML, CSS, GitHub, Linux/Bash, LaTeX, Jira, Google Cloud, Anthropic/OpenAI/Ollama APIs

LANGUAGES

Spanish: Native
English: Fluent