

Joseph Loriso

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Education

Illinois Institute of Technology

Bachelor of Science Computer Science

Minor in Circuits and Systems

Related Coursework

Object Oriented Programming, Data Structures and Algorithms, Database Organization, Computer Architecture, Circuit Analysis, Signals and Systems, Introduction to Algorithms, Programming Languages and Translators

Chicago, IL

06/2025

Experience

Illinois Institute of Technology

Computer Science Teaching Assistant

CS 115 - Object Oriented Programming

- Developed leadership skills in guiding group discussion
- Encouraged collaboration on group projects
- Cultivated a supportive and inclusive environment for learning and experimentation
- Fostered independent abilities through guided learning

Project Experience

Interactive CTA Model - <https://github.com/jloriso/csPortfolio/tree/main/cs201/finalProject>

- Designed objects that encapsulate important attributes of the CTA as well as utilize various object oriented design principles to optimize the design
- Used sorting algorithms to allow for easier searching within the program
- Developed a text based UI that allows the user to add, remove, and edit stops on the CTA

Water Jar Project - <https://github.com/jloriso/waterJar>

- Used a breadth first search to find the shortest combination of 3 jars of varying size to fill one out of the three with an amount determined by the user
- Used various abstract data structures to optimize the search and track routes that were already attempted

Formula One Database - <https://github.com/jloriso/formulaOneDB>

- Developed a robust SQL database schema for efficient storage and retrieval of Formula One racing related information
- Designed an intuitive GUI using Python libraries to interact with the database
- Demonstrated proficiency in data modeling, SQL query optimization, and software development best practices
- Bridged front-end and back-end development, creating a seamless user experience

Technical Skills

Object Oriented Programming Design, Vim, Bash, Java, C, Racket, Linux, Git, Assembly, Python, SQL, HTML, CSS, JavaScript, Unix, MATLAB, MySQL, Powershell

Campus and Community Involvement

Scouts of America

Eagle Scout - Countless service projects including my Eagle Scout project with the Kalamazoo Nature Center

WIIT 88.9 FM

Events director of the on campus radio station, put on numerous community events and participated in several on-air shows

Illinois Tech Cross Country and Track and Field

Captain of the Cross Country as well as the Track and Field teams, being involved in multiple service projects as a team. Devoted to developing a team culture that facilitates and encourages individual and team growth