

# Adam Sadek

Student at Illinois Institute of Technology, Graduating Fall 2024 with a Bachelor's in Computer Science and a Master's in Artificial Intelligence

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## Expertise

Java  
Python  
SQL  
Video Editing  
MAC Systems  
Google Apps

## Programming Experience

Java  
Python  
Assembly Code  
Haskell  
SQL  
C  
r  
Racket  
HTML & CSS

## Interests

### Database Design

I enjoy designing entity relationship diagrams, relationship schemas, and data definition languages for databases. Learning relational algebra and POSTGRESQL has advanced my knowledge in database management systems.

### Basketball

Basketball has been my favorite sport since I was 5 years old. I played all through high school and was an NACC Division III men's basketball player at Illinois Institute of Technology.

## Pentair Computer Science Internship (May 2023 - August 2023)

### Pentair

- Designed and optimized an automated system for internal life cycle testing of Pentair water softeners.
- Conducted interviews with software, electrical, and IoT engineers, as well as product development team to collect data on life cycle testing.
- Designed a block diagram of the inputs, outputs, sensors, internal/external devices, and functionality of the self-testing system.

## COM-IoT Data Science Internship (May 2022 - August 2022)

### COM-IoT Technologies

- Using supervise.ly, annotated over 1,200 point cloud data frames made by a LiDAR focused on traffic objects such as cars, trucks, buses, pedestrians, and motorcycles.
- Performed LiDAR research assignments regarding U.S. autonomous vehicle companies utilizing LiDAR technology.
- Discovered how software engineers build machine learning algorithms to identify objects and the speed of moving vehicles and how that is used to promote traffic safety.

## Circuit Board Design Experience (August 2022 - December 2022)

### Xprize Rainforest Competition

- Was part of an interprofessional competition called the Xprize Rainforest.
- Using KiCad software, designed and built a printed circuit board for a drone package equipped with motors, a microprocessor, a motor driver, and voltage converters.
- This process included designing the schematic and printed circuit board, programming the microprocessor, and manufacturing the board.

## Pride Points

### AdSmart - Startup Business

In Fall of 2023 I, along with 3 of my closest friends, developed a startup called AdSmart. The business was focused on connecting local businesses to universities so that they can advertise to the local student population. This process taught me the importance of resilience, adaptability, and the value of learning from both successes and failures in a dynamic and often unpredictable entrepreneurial environment.

### Dean's List - Illinois Institute of Technology

For all seven semesters that I have completed at Illinois Institute of Technology, I have been on the Dean's list. I currently maintain an overall GPA of 3.93 and I expect to improve my GPA in the future. Academic discipline and a strong work ethic have always been strengths of mine.

## Projects

SQL Banking System Database Using JDBC	LiDAR Point Cloud Data Frames	Assembly Language Calculator	Machine Learning on Hotel Booking Dataset	Java Music Playlist Program
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