

# 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

Phone: +1-630-656-4241  
E-mail: [adamsadek813@gmail.com](mailto:adamsadek813@gmail.com)  
Linkedin: [linkedin.com/in/adam-sadek-codes](https://www.linkedin.com/in/adam-sadek-codes)  
Website: [adamsadek813.github.io/Adam-Sadeks-Website](https://adamsadek813.github.io/Adam-Sadeks-Website)  
Address: Hanover Park, IL

## 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.

## AdSmart - Startup Business (August 2023 - Present)

### AdSmart

- Developing a startup called AdSmart along with 3 of my closest friends.
- Connecting local businesses to university campuses to advertise to the local student population.
- Learned the importance of resilience, adaptability, and the value of learning from both successes and failures in a dynamic and often unpredictable entrepreneurial environment.

## Academic Achievements

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

#### Xprize Rainforest Competition

I was part of an interprofessional course competition called the Xprize Rainforest. Using KiCad software, I 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.

### 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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