

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
Enjoy designing entity relationship diagrams, relationship schemas, and data definition languages for databases. Gaining proficiency in relational algebra and PostgreSQL has enhanced knowledge in database management systems.

Basketball

Developed a fondness for the sport at the age of 5. 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 with college 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 (August 2022 - December 2022)

Xprize Rainforest Competition

Part of an interprofessional course 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.

Dean's List - Illinois Institute of Technology

Achieved during all seven semesters completed at Illinois Institute of Technology. Maintaining an overall GPA of 3.93 is ongoing with expectations of further improvement in the future. Recognized strengths include academic discipline and a dedicated work ethic.

Projects

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| 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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