

Adam Sadek

Master's in Artificial Intelligence
Bachelor's in Computer Science
Graduating Fall 2024 From Illinois Institute of Technology

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Expertise

Artificial Intelligence (AI)
Machine Learning
Database Organization
Data Science
Natural Language Processing

Programming Experience

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

Interests

Artificial Intelligence
Enjoy developing models and studying complex datasets to identify patterns that can offer groundbreaking solutions to complex problems.

Database Design
Like designing entity relationship diagrams, relationship schemas, and data definition languages for databases.

Basketball
Played all through high school and was an NCAA Division III player at Illinois Institute of Technology.

Pentair Computer Science Internship (May 2023 - August 2023)

Pentair

- Spearheaded a project to design and optimize 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 and diagramed the system of inputs, outputs, sensors, internal/external devices, and functionality of the self-testing softener.

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

SQL Banking System Database Using JDBC	LiDAR Point Cloud Data Frames	Genetic Algorithm on Traveling Salesman	Machine Learning on Hotel Booking	Naive Bayes classifier for App Reviews
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