

# Aaqel Shaik

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## EDUCATION

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### University of Illinois Chicago

Chicago, IL

*Bachelor of Science in Computer Science*

*Aug 2021 – May 2025*

- **GPA:** 4.0/4.0
- **Relevant coursework:** Data Structures, Software Design, Machine Organization, Algorithms

## EXPERIENCE

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### Research Aide Technical - Junior

May 2024 – Aug 2024

*Argonne National Laboratory*

*Lemont, IL*

- Develop a general-purpose AI assistant specifically tailored for scientists engaged in experimentation and research.
- Build a dynamic model generation system using Apple's RealityKit libraries for the Apple Vision Pro.

### Research Aide Technical - Sophomore

May 2023 – Aug 2023

*Argonne National Laboratory*

*Lemont, IL*

- Implement node-local edge-processing integration with existing sensor-based ML applications.
- Construct and deploy infrastructure to manage a network of nodes and applications.

### Undergraduate Researcher

Feb 2023 – Present

*UIC Electronic Visualization Laboratory*

*Chicago, IL*

- Develop ML and web components to demonstrate the real-time processing of edge data from SAGE nodes distributed around the United States.
- Build and test prototype SAGE nodes to deploy in and around the Chicagoland area.

## PROJECTS

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### GENIUS | *Swift*

May 2024 – Aug 2024

- Built a virtual assistant tailored for scientists engaged in research by leveraging the capabilities of LLMs with the XR technology of the Apple Vision Pro.
- Developed a dynamic simulation view by utilizing producer-subscriptions models, allowing users to observe simulation changes in XR in real time.

### Chat Message Application | *Java*

Apr 2023 – May 2023

- Built a chat-message application in Java using the JavaFX library and client-server architecture.
- Project utilized the MVC design pattern withFXML and CSS.

### OpenStreet Maps Pathfinder | *C/C++*

Apr 2022 – May 2022

- Created a path-finding application that takes in OpenStreetMap data as input and calculates the path to be taken by two individuals to meet at a common point.
- Implemented an additional feature that used Kruskal's algorithm to find the minimum spanning tree.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, F#, Swift

**Developer Tools:** Git, Linux CLI

**Libraries:** NumPy, Matplotlib, RealityKit

## EXTRACURRICULAR ACTIVITIES

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### Undergraduate Research: USB Debug Splitter

Jan 2024 – May 2024

- Worked with a team of ECE students to develop an industry-approved system for a corporate sponsor.
- Learned and tested various userspace libraries for establishing USB gadgets in the Linux kernel.

### Association for Computing Machinery at UIC (ACM@UIC)

Aug 2021 – Dec 2022

- Perform various secretarial duties like drafting outreach emails and corresponding with third parties regarding events.
- Planned and executed club merchandise production from the design to manufacture.