

# Yelizaveta Semikina

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## Education

The University of Illinois, Chicago (UIC)  
Bachelor of Science in Data Science

Graduated: December 2023  
GPA 3.53/4.0

## Professional Experience

### UI Health - UIC Hospital

*Intern*

May 2023 - June 2023

- Conducted thorough research and analysis to identify appropriate technologies and frameworks for the project.
- Leveraged existing technologies to design a maintainable and user-friendly system that can be integrated with AI.
- Documented the system design, implementation details, and user documentation for future reference and maintenance.

### AbbVie - Pharmaceutical Company

*Intern*

January 2023 - May 2023

- Completed a corporate-sponsored UIC computer science class.
- Collaborated with a team of 3 students, achieving a 95% project success rate as per AbbVie's Business Technology Solutions team.
- Developed problem-solving and design-thinking skills through completing projects that rely on technology and data.
- Contributed ideas and diverse perspectives to the sponsored learning experience through engagement in experiential learning.

### UIC AI Lab

*Intern*

May 2022 - June 2022

- Manually collected and annotated 100+ images.
- Created datasets based on the video file.
- Trained machine vision system with the datasets and video files.
- Collected data accuracy from new and previous models and analyzed which machine vision system is more effective.

## Academic Research

### Drones in Healthcare

Fall 2023 - December 2023

- Researched drone technologies to identify their potential applications and benefits in healthcare research.
- Spearheaded a critical analysis of organ transplant waiting times, employing statistical forecasting methods to project death rates during the waiting period for 6 organ transplants.
- Created reports summarizing research findings and recommendations for using drones in healthcare research.
- Compiled and analyzed data from a wide range of sources, including 9 healthcare studies and 13 drone technical specifications, to create in-depth research reports.

## Early Research Scholar Program

### Analyzing Computer Randomness: BLOG vs. C++

Fall 2021 - Spring 2022

- Wrote a Tic Tac Toe simulation game in C++ and BLOG (Bayesian Logic).
- Determine how efficient it is to utilize a probabilistic programming language, such as BLOG, over C++.
- Analyzed the results and defined that BLOG was 95% more efficient than C++ due to its ability to execute random output.

## Academic Project

### C++ Interpreter

Spring 2021

- Created a C++ Interpreter that executes Python code.
- Formulated an algorithm capable of handling an unlimited number of operations, enhancing flexibility by 25%.

## Skills

**Technical:** SQL, R, SAS, Python, JavaScript, C++ (Pre Intermediate), NodeJs, ReactJs, HTML (Bootstrap), CSS, Pandas, Tableau.

**Language:** Proficient in oral and written Russian, familiar with Spanish and Kazakh.

## Memberships

- Honors College August 2020 - December 2023
- Student Activities Board: Main Stage Committee August 2019 - December 2021
- American Marketing Association August 2021 - December 2021