# Bakry H. Abdalla

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## EDUCATION

**University of Illinois at Urbana-Champaign**                     **Expected December 2025**
*Bachelor of Science in Computer Engineering*                     GPA: 4.00/4.00

**Related Coursework:**
Introduction to Computing, Computer Systems and Programming, Data Structures

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Python, HTML, CSS, JavaScript
**Frameworks/Tools:** Git, OverLeaf
**Research:** Data analysis, Research paper writing
**Spoken Languages:** English, French and Arabic

## PROJECT HIGHLIGHTS

**Travel Itinerary generator (C++)**                               **February - May 2023**
- Created a program that generates a travel Itinerary for a trip to Egypt based on user choices.
- Practiced coming up with real world business solutions independently from start to finish.

**Missile Command (x86)**                                          **September 2023**
- Independently wrote and debugged the code to the game Missile command in x86 assembly

**Sudoku Puzzle Solver (C)**                                       **March 2023**
- Created a program that takes a 9x9 Sudoku puzzle and outputs the solution.
- Implemented a recursive function with backtracking to solve the puzzle.

**2048 Game (C)**                                                  **March 2023**
- Created a version of 2048 with a modifiable number of rows and columns.
- Applied my knowledge of structs, memory allocation, and creating logic for game inputs.

## EXPERIENCE

**Illinois Robotics In Space (IRIS)**
- Collaborated in a team environment to write a systems engineering paper detailing our lunar robot.
- Practiced my writing and formatting skills in OverLeaf.

**Full Stack Web development**
- Currently taking a web development online course through learncodethehardway.org

**Research Work**
- Conducted lab experiments individually to answer two research questions about safety of river water and parachutes.
- Analyzed and Interpreted experimental data and completed two research papers detailing my findings.

## EXTRACURRICULAR ACTIVITIES & LEADERSHIP

**Member of Tau Beta Pi**
- Active team member in the professional committee, dedicated to connecting students with employers and professors and fostering the growth of their personal soft skills.