

Braden Dean

deanbraden333@gmail.com | (847) 531-3455 | 45W860 Plank Rd, Hampshire IL

Education

University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

Expected May 2025

GPA: 3.74/4.00

Related Coursework:

- | | | |
|--------------------|-------------------------|-------------------------|
| - Algorithms | - Database Systems | - Machine Learning |
| - Graph Theory | - System Programming | - Numerical Methods |
| - Combinatorics | - Data Structures | - Complex Variables |
| - Abstract Algebra | - Computer Architecture | - Differential Geometry |

Work Experience

Kohl's – Operations Associate

Mar 2023 – Dec 2023

- Worked in a team to unload freight quickly and reliably
- Ensured efficient operation of the store while providing friendly customer service

University of Illinois – Undergraduate Research Assistant

Aug 2021 – May 2022

- Sought approval to bring a microreactor onto campus by writing an environmental report
- Collected the required information for approval and ensured they met regulations

Research Experience and Projects

Paintability of Multipartite Graphs

Jan 2024 – Present

- Discovered new results, both computational and theoretical, related to graph coloring
- Used graph theory and algorithms to develop code that found new results
- Worked in a team to write a detailed report on our findings, methods, and new ideas

Marr Freight Management

Jan 2024 – May 2024

- Designed an application allowing companies to manage freight shipments
- Utilized databases to connect companies, drivers, and shipments, streamlining logistics
- Created a user interface that was intuitive and responsive, ensuring a positive user experience

System Programming Networking Project

Nov 2024 – Dec 2024

- Developed a Linux-based server and client which communicated over a network
- Implemented features for management of a filesystem, such as uploading, downloading, and modification
- Ensured the integrity of data was properly managed, with no corruption of files

Activities and Leadership

Illinois Mathematics Lab Outreach – President

Aug 2021 – Present

- Engages in hands-on activities with local students to get kids excited about math
- Volunteers at local schools and organizes visits to community events
- Trains new members and develops new activities

Technical Skills

Programming Languages: Java, C, C++, Python, JavaScript, HTML, CSS, MySQL, Verilog, OCaml

Tools/Applications: Git, Visual Studio Code, AutoCAD, Microsoft Office