

# Benjamin Mast

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## EDUCATION:

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**University of Colorado at Boulder, College of Engineering**

Expected May 2027

*Bachelor of Science in Computer Science*

*Boulder, CO*

- **GPA 4.0** | Dean's List 2023 - Present
- Chancellor's Achievement Scholarship
- **Relevant Coursework:** Data Structures, Discrete Structures, Linear Algebra, Computer Systems, Software Development, Algorithms, Data Science

## COMPUTER SCIENCE EXPERIENCE:

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**Intro Computer Science Project**

Fall 2023

- Used C++ to program a simple candy-land style game for up to 4 players.

**Data Structures Project**

Spring 2024

- Programmed and compared multiple data structures including linked list, binary search trees, and hash tables, to test which was most efficient and how the different data structures efficiency changed as larger data sets were used.

**Computer Systems Labs**

Fall 2024

- Read through assembly in order to reverse engineer a C program
- Wrote a simple next-fit explicit-free-list dynamic memory allocator
- Created a basic Unix shell program that supports job control
- Optimized C code to achieve a goal number of CPU cycles per element

## WORK EXPERIENCE:

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**Verona Aquatics Center**

2022 to Present

*Lifeguard*

*Madison, WI*

- Supervised Patrons and performed rescue saves in emergencies along with first aid
- Underwent monthly faculty training, along with yearly recertification through the Red Cross

## VOLUNTEER WORK:

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**Bakke Athletics – Rock Steady Boxing**

2021 to 2022

- Helped people with Parkinson's to participate in boxing classes twice a week

**Badger Prairie Needs Network**

2021 to 2023

- Packaged donated food to be distributed to local food pantries

**Rotaract Club**

2023 to Present

- Participated in monthly service projects and events to support the community

## SKILLS AND INTERESTS:

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**Technical:** Git, Visual Studio Code, Microsoft Office, Pandas

**Language:** C, C++, C#, Python, JavaScript, Java, HTML, CSS

**Interests:** In my free time I enjoy game development work using Godot and Unity. I like spending time outdoors biking in the summer, and snowboarding in the winter.