

# GRANT COMBS

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location: Marquette, MI, USA

*Dedicated worker, experienced leader and enthusiastic learner looking to improve our quality of life through computing. Fluent in Spanish and various programming languages.*

## Programming Experience

C	C++
C# (incl. the .NET framework)	Java
Python	Assembler
Scheme	Smalltalk
LISP	Haskell
JavaScript (including jQuery, Vue, socket.io, and Bootstrap libraries)	
HTML/CSS	TensorFlow
PyTorch	CUDA
Experience with Agile development cycle	

## Languages

English | Native fluency  
Spanish | C1 fluency

## Additional Experience

Sole developer for the NMU Athlete Housing Portal, **NMU Student-Athlete Advisory Committee** (2021-2022)  
Age Group Coach, **Great Lakes Tritons** (2019-2020)  
Fellow, **NMU Freshman Fellowship Program** (August 2018-April 2019)

## Education

**Masters of Science in Computer Science, Northern Michigan University, Marquette, MI**

- Enrolled in a master's degree in Computer Science with an expected graduation of May 2024

**Bachelor of Arts in Computer Science and Spanish, Northern Michigan University, Marquette, MI**

- Majored with Computer Science and Spanish with a minor in mathematics
- Graduated with a 3.95 GPA, Full Honors with World Language Studies
- Five-year varsity member of the DII Swim & Dive Team; co-captain during the 2021-22 and 2022-23 seasons; recipient of the 2019-20 Breakthrough Athlete of the Year Award, 2020-21 Coaches' Award, and 2021-22 and 2022-23 Leadership Award
- Nominated representative of the NMU Student-Athlete Advisory Committee (2019-2023)
- Athlete Member of the Student-Athlete Well-Being and Safety Committee (2021-2023)

## Experience Highlights

**Head Coach, Wildcat Aquatics Club (May 2021 – present)**

- Created and tailored workouts to swimmers' individual needs, establishing a training cycle that enabled them to be successful at their in-season and championship meets
- Facilitated swimmers' improvement and development through constructive feedback regarding their stroke technique, race strategy, starts, and turns

**Graduate Research Assistant, Northern Michigan University (May 2022 – present)**

- Performed experiments testing the efficiency of the project's shapenesting genetic algorithm
- Co-authored, published and presented results in a paper at the 2023 IEEE Congress for Evolutionary Computation (*Niching Improves Recombinative Search: Revisiting the New York City Tunnels Problem*)
- Commercialized the project's shapenesting software by developing a user-friendly web interface with HTML, CSS, and Javascript
- Exponentially decreased software run-time by parallelizing the shapenesting algorithm using CUDA on NVIDIA GPUs
- Collaborated with other research assistants to improve software efficiency

**Independent Technology Consultant, Inspire Behavioral Health (September 2017 – January 2024)**

- Professionalized the client's communications via the creation and continued management of a Google Workspace
- Digitalized client's paperwork using DocuSign to adapt to the COVID-19 pandemic
- Ensured ease of use of client's network via the setup and management of network equipment, computers, and printers
- Improved client's online presence by updating their existing WordPress website
- Guaranteed client satisfaction through periodic technical support by both e-mail and video-conference