Carson Mulvey

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RESEARCH INTERESTS

Discrete math, combinatorics, mathematical modelling, natural language processing

EDUCATION

University of Florida, Gainesville, Florida August 2022 — May 2026
B.S. Computer Science, B.S. in Mathematics *(Planned)* Cumulative GPA: 3.55/4.00
Japanese Language Minor Honors Program

EXPERIENCE

University of Florida Gainesville, Florida
Resident Assistant June 2024 — August 2024

- Facilitate community interaction and manage event programming for UF on-campus residents
- Provide emergency response and enforce community policies for an area of over 500 residents

University of Florida Gainesville, Florida
Peer Mentor January 2024 — May 2024

- COT3100 Applications of Discrete Structures
- Lead and teach discussion for a section of 60 students
- Hold office hours and assist with grading and proctoring exams

Computing Center for Social Good Virtual
Intern February 2021 — November 2021

- Develop solutions to medical, educational, and technological issues
- Apply supervised, unsupervised, and reinforcement learning and develop neural networks
- Learn collaborative skills and version control practices with Git

PROJECTS

Gengo Contextual Omnitool August 2021 — June 2022
COP3530 Project Member

- amsfonts
-

gräf August 2021 — June 2022
Project Lead

- Software using Qt and Python that provides a GUI for math animation
- Integration of open source animation library manim

CCSG Natural Language Processing October 2021 — November 2021
Project Lead

- Naive Bayes spelling correction using a noisy channel model
- 90% accuracy based on spelling error corpus

RELEVANT COURSEWORK

- MAD6206 Combinatorial Theory *(Fall 2024)*
- MAA4211 Advanced Calculus and Real Analysis *(Fall 2024)*
- CIS4301 Information and Database Systems *(Fall 2024)*
- MAS4301 Abstract Algebra *(Spring 2024)*
- COP3530 Data Structures and Algorithms *(Fall 2023)*
- MAS4105 Linear Algebra *(Fall 2023)*
- COT3100 Applications of Discrete Structures *(Spring 2023)*
- MHF3202 Sets and Logic *(Spring 2023)*

SKILLS

- **Programming:** Python, Java, C++, Git, LaTeX
- **Languages:** English (Native), Japanese (JLPT N2, CEFR B2)