

Malcolm Newmark

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EDUCATION

Washington University in St. Louis

St. Louis, MO

Bachelor of Arts Science, Candidate in Computer Science + Mathematics

August 2022 – May 2026

Second Major in Financial Engineering

- GPA: 3.90 — Computer Science GPA: 4.0 — Mathematics GPA: 4.0 — Financial Engineering GPA: 4.0
- Dean's List all applicable semesters
- Relevant Coursework: Data Structures and Algorithms, Data Science, AI, Machine Learning, Object-Oriented Software Laboratory, Creative Programming, Number Theory, Linear Statistical Models, Financial Mathematics

EXPERIENCE

Washington University in St. Louis Computer Science

St. Louis, MO

Teaching Assistant

July 2024 - Present

- Provide regular instruction to 40 students on object-oriented programming in C++
- Educate WashU students through weekly office hours, design questions and quizzes to aid in learning
- Grade and evaluate student assignments once a week

Camp Kawaga

Minocqua, WI

Program Director

January 2024 - August 2024

- Planned summer camp calendar including activities, excursions, twelve camping trips, four inter-camp socials, and six inter-camp competitions
- Organized and executed day-to-day activities of 200 campers from June to August
- Assigned, prepared, and supervised 60 staff, ensuring staff satisfaction and morale
- Oversaw several staff-led teams for the operation of evening programs, intra-camp competitions, and camper achievement

Division Leader Head of Yearbook

June 2021 - September 2023

- Managed cabin dynamics, safety, well-being, and growth of 50 boys aged seven through nine
- Managed development and performance of ten staff members, provided coaching and advice
- Wrote, designed, and collated annual yearbook while managing a team of 4 members
- Maintained and updated Kawaga achievement system, managed team of ten staff members

PROJECTS

MockOS

March 2024 - May 2024

C++

- Developed an extensive mock file system in C++
- Created a user-edited command interface enabling file creation, copying, editing, reading, and custom commands
- Ensured system worked for several different file types through the abstract factory, visitor, and proxy patterns

Pac-Man AI

August 2023 - December 2023

Python

- Created a Pac-Man bot relying on AI principles (Value Iteration, Q-Learning)
- Includes BFS, DFS, A* among others to determine optimal routing, including multi-agent scenarios

LEADERSHIP & ACTIVITIES

Sigma Phi Epsilon

St. Louis, MO

President

December 2023 - Present

- Supervise and delegate responsibilities to ten executive board members to organize finances and continue day-to-day operations
- Serve as a spokesperson of the chapter to the university, alumnae, headquarters, and external organizations
- Communicate with Washington University on behalf of the chapter to maintain good standing, ensure housing

SKILLS & INTERESTS

Languages: Java, Python, C/C++, R, JavaScript, SQL, Linux, HTML/CSS, PHP

Developer Tools: Git, VS Code, Visual Studio, Eclipse, Linux, IntelliJ

Skills: Microsoft Office, Google Suite, Adobe Acrobat