

Michael J. Allen

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Education

Northwestern University: Weinberg College of Arts and Sciences Bachelors of Arts in Computer Science, June 2023

Evanston, IL

Cumulative GPA: **3.59** Dean's List: **3x**

Coursework: Human Computer Interaction, Programming Languages, Design & Analysis Algorithms, Game Design & Development

Technical Skills

Computer: Experienced with Python, Racket, C, C++, C#, HTML, Javascript, Canva, Glitch

Math: CS related proof work, Real Analysis, Linear Algebra, Multivariable Calculus

Technical Projects

Chess Project

- Used object oriented programming to keep track of all the individual chess pieces and make sure they moved correctly according to the rules.
- Programmed sprites and changed the color of the game board when a winner is determined.

Trip Planner

- Program that planned the shortest route from starting point to a specific location given a set of positions.
- Designed an implementation of Dijkstra's Algorithm to search across a graph I build out of the set of positions and find the shortest path.
- Utilized Dictionaries and Binary Heaps to keep track of data.

Optimizing Programs

- Operated within an existing, significant codebase to write a parallelized version of a program to optimize the performance of a program analyzing signals, searching for interference.
- Designed an algorithm that schedules all high priority jobs and the maximum possible number of low priority jobs without overlap that runs in linear time.

Technical Experience

ASG Presidential Campaign, Website Design

February 2022 - April 2022

- Utilized Squarespace and Canva to develop and implement a website for a winning student body presidential campaign.
- Continually made updates of new policy initiatives and student org. endorsements throughout the election season to help increase voter turnout by 40%.

Leadership Experience

Northwestern Associated Student Government, Campus Life Committee Member

2021 - Present

- Collaborated on projects aimed to improve housing and dining facilities on campus.
- Coordinated an effort to expand menstrual product access in residential buildings, all gender housing and dining options for students with dietary and religious restrictions.

Work Experience

All Four Fun, Operations Aid

2016 - Present

- Operations aid at a company which offers inflatable rentals to customers from small backyard parties to large corporate and church events.
- Daily work consisted of delivery, set up, and maintenance of arcade games, inflatable jumpies, tents, tables, and chairs.
- Routinely worked in various sized groups depending on the requirements of an event.

Extracurricular Activities

Planned Parenthood Generation Action, Member

2022 - Present

Northwestern Symphonic Band and Northwestern Percussion Ensemble, Member

2019 - 2020

Skills

Language: 4 years of Latin, Written and Oral Proficiency in Japanese