

Zach Wrubel

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Recent Computer Science graduate with strong interests in utilizing my development skills in technology and finance.

Education:

University of Colorado Boulder, Boulder, Colorado

BA, Computer Science

Minor, Philosophy

- GPA: 3.684
- Honors/Awards: Dean's List - Fall 2019, Spring 2022, Fall 2022, & Spring 2023
- Relevant Coursework: Data Structures, Algorithms, Software Development, Data Science, Object Oriented Design

Skills:

- Coding Languages: Python, C/C++, Java, Pandas, Numpy, JavaScript, Node.js, HTML, CSS, LaTeX, SQL.
- Technical: Google Docs, Sheets, Slides, Drive, Microsoft Office 365, WindowsOS and MacOS.

Work Experience:

Technology Intern, *Empist*, Chicago, IL

May 2022 - July 2022

- Provided assistance with deploying various technology solutions to businesses and clients with the Empist Service Desk Team.
- Learned familiarity with Windows and Apple products by deploying solutions for specific client requirements.
- Organized physical and virtual inventory.

Youth Instructor, *First Ascent Climbing Gym*, Chicago, IL

Jun 2017 - Aug 2017, Jun 2018 - Aug 2018

- Worked as a youth instructor at a climbing day-camp.
- Taught climbing courses for kids ages 6-14, using encouragement to facilitate growth and development into confident climbers.
- Responsible for safety of kids climbing every day.

Consulting Project, *Francis W Parker*, Chicago, IL

October 2018

- Consulted with Back of the Yards Coffee Co. in a entrepreneurship class to enhance client enticement.
- Studied company and local business environment to understand source of company success & problems.

Projects:

Airport Simulator

Spring 2023

- Program that simulates & tracks flights between airports. Book flights for travelers & keeps track of who is on which flight and where each flight is going.
- Uses several patterns of Object Oriented Programming including:
 - Strategy, Singleton, Observer, Decorator, & Factory Patterns

Connect Four with Alpha-Beta Pruning & A-Star

Fall 2022

- Simulates games of ConnectFour with various player strategies, including selecting moves randomly, and selecting moves with various algorithms.
 - Algorithms used to simulate a player's strategy include: MiniMax algorithm, Minimax algo with Alpha-Beta Pruning, & A-Star algorithm with AB Pruning
- Uses Jupyter Notebooks to implement algorithms studied in several classes.

Leadership Experience:

Judicial Board Chairman, *Phi Gamma Delta (Fiji)*

- Led 10-person Judicial Board where disciplinary matters are brought to attention and participating parties are held responsible.
- Responsible for creating and upholding standards of the fraternity.

Scholarship Committee Member, *Phi Gamma Delta (Fiji)*

- Assisted members with succeeding in their academic & professional life.
- Provided academic and professional resources for specific needs of members.