

MATTHEW MARCONI

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Education

Allegheny College | Meadville, PA

Major: Computer Science and Business

Intended Graduation: May 2021

Alden Scholar (Dean's List)

Major GPA: 3.7/4.0

Coursework: Mathematics, Computer Science, Data Abstraction, Database Systems, Software Engineering, Economics, Business, Writing, and Public Speaking

Work Experience

Resident Advisor | Allegheny College Residential Life – Meadville, Pa

August 2018 – Present

- Participated in a two-week training program to better develop skills in problem solving, mediating, and building an inclusive environment.
- Represented Allegheny College and directed 24 students as live-in advisor and resource.
- Communicated and collaborated with a hall staff of 7 students to establish a united leadership team.
- Planned, implemented, and conducted activities and programs to build community and help meet residents' social, academic, and developmental needs.

Technology Instructor | Lavner Camps – Narberth, Pa

June – August 2019

- Instructed several technology camps as needed. Tech camps include Robotics, Coding (Scratch, Java, Python, C++), Minecraft, Game Design, and 3D Printing.
- Implemented goals for campers using the provided curriculum and ensuring that they complete their projects throughout the week.
- Attending daily staff meetings, assisting with sign-in and pick-up, and following all policies and procedures.
- Being a role model for campers and staff, and arriving every day with an inclusive, professional, upbeat, and positive attitude.

Engineering Intern | Metal Powder Products (MPP) – St. Marys, Pa

May – August 2018

- Performed multiple capability analysis studies to determine the most efficient processes of manufacturing parts to proper specifications.
- Ran tests involving different packaging and shipping techniques to prevent wear on products.
- Worked with coordinate measuring machines (CMM) to ensure parts were being manufactured to proper specifications and developed solutions if parts did not fit specifications.
- Created a new electronic filing system for all process sheets of manufactured parts.

- Lead organization of youth and senior citizen community events.
- Supervised youth basketball league grades 4 through 6.
- Assisted with managing the park's social media platforms.
- Ensured proper daily maintenance of the parks.

Computer Skills

- Java • Python • SQL • Django • MongoDB • AutoCAD
- Solid Edge • Microsoft Office • Minitab • Cassandra • Docker

Projects

Baseball Statistic Calculator

- A program utilizing Java code that has a user-interface with multiple options for calculating various baseball specific statistics. Also has an added function that plays “Take Me Out to the Ballgame” utilizing jfugue.

Doubling Program

- Worked with a team of two others to create a Java program that performs a doubling experiment on an implementation of the insertion-sort algorithm and an implementation of the merge-sort algorithm in order to determine the execution time of a given input size.

gatorgrouper

- Class project to create an automated group formation tool enabling effective teamwork. This tool utilizes Python code.

schemaanalyst

- An open source project that is a tool for search-based test data generation for relational database schemas.