

# Zachary Shaffer

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## EDUCATION

### ALLEGHENY COLLEGE

B.S. IN COMPUTER SCIENCE

Expected May 2019 | Maj. GPA: 3.18

## LINKS & CONTACT

Github:// [shafferz](#)

LinkedIn:// [shafferz](#)

Twitter:// [@ShafferzShaffer](#)

## COURSEWORK

### UNDERGRADUATE

Analysis of Algorithms

Artificial Intelligence

Computer Organization

Digital and Screen Cultures

Introduction to Bioinformatics

Operating Systems

Programming Language Concepts

Linear Algebra

Theory of Comp. & Formal Languages

Software Engineering

## SKILLS

### PROGRAMMING

Over 2000 lines:

Java •  $\text{\LaTeX}$

Over 500 lines:

Python • HTML • CSS •

C++

Familiar:

C# • JavaScript

Software:

Microsoft Office • Unity

Engine • Adobe Creative Suite

## EXPERIENCE

### RESIDENT ADVISOR | ALLEGHENY COLLEGE

January 2017 – Present

- Train to develop interpersonal skills and de-escalation techniques to help foster a healthy community in the residence halls, operate during high-stress situations, and solve problems quickly and efficiently.
- Collaborates with other resident advisors and college staff to organize and execute over a dozen building-wide and campus-wide events and activities.
- Documents incidents of policy violations to ensure the safety and wellness of residents.
- Regularly checks in with residents to help them succeed emotionally, academically, and socially by directing residents to appropriate campus resources when necessary.
- Works with professional College staff to resolve residents' issues in a timely manner.

### TEACHING ASSISTANT | ALLEGHENY COLLEGE

January 2016 – January 2018

- Helped professors design, grade, and return laboratory assignments for the Introduction to Computer Science I & II courses.
- Held weekly office hours to help students with laboratory assignments, weekly practical assignments, and examination preparations.
- Developed a strong understanding of the principles of object-oriented programming, primarily in the Java programming language.
- Communicated with students and colleagues to develop a firm understanding of software documentation and the JavaDoc Commenting Standard.
- Consistently and efficiently utilized the GitHub Flow Model to work with students and professors to complete software development tasks on GitHub.

### TUTOR | CREATING LANDSCAPES FOR FAMILIES

September 2015 – May 2016 | Meadville, PA

- Worked with local students to provide academic and emotional support to underprivileged students.
- Tutored students in mathematics and general sciences.
- Taught short lessons and worked with other Allegheny College students to provide additional educational programming.
- Prepared, cooked, and served healthy meals after school twice a week to help families save money while providing nutritional meals for their children.

### VOLUNTEER MUSICIAN | GOOD SHEPHERD HANDBELL CHOIR

May 2009 – Present (Seasonal) | Braddock, PA

- Performed volunteer and paid concerts at numerous nursing homes, weddings, and local parish functions.
- Participated in fund-raising events to help sustain the program, where I worked in kitchens, festival activity booths, and bake sales.
- Assisted with administrative fund-raising decisions, including assisting the directors with game and booth selection for an annual festival fund-raiser, financial spreadsheet organization, and fund-raiser profit calculations.