

# Zekarias Asaminew

zekariasasaminew22@augustana.edu | 773-968-6316 | Rock Island, IL | [LinkedIn](#)

## Education

<b>Augustana College</b> Bachelor of Arts - Computer Science, Biochemistry, Minor in Applied Mathematics • International Student Merit Award: \$26,000 Dean's Scholarship Recipient GPA: 3.905, Spring 2022/Fall 2023 Dean's List	Rock Island, IL Feb 2022 - Dec 2026
<b>South West Academy</b> High School Diploma GPA: 4.000, Honors	Addis Ababa, ET Sep 2019 - Aug 2022

## Experience

<b>Library Circulation &amp; Research Help Worker</b> Augustana College • Provided valuable research assistance to students, addressing their inquiries and facilitating a positive learning environment • Improved library circulation efficiency through meticulous organization, ensuring smooth book transactions and maintaining accurate records	Aug 2023 - Present Rock Island, IL
<b>Integral Calculus Researcher</b> South West Academy • Calculated drug concentrations, and dosage rates for medical treatments, and predicted population growth and decay in biological systems • Calculated time complexity for algorithms, conducted efficiency analysis, and analyzed signals and images through techniques like Fourier analysis	Sep 2021 - Aug 2022 Addis Ababa, ET
<b>Tutor and Grader</b> South West Academy • Simplified complex concepts in Math/Physics, evaluated Math/Physics worksheets	Sep 2021 - Aug 2022 Addis Ababa, ET

## Projects

<b>2022 Democratic and Republican Vote Visualization Tool (Python)</b> • Performed in-depth data mining, organization, and analysis of 2022 Democratic/Republican vote data of all 52 states, focusing on gerrymandering detection and its impact on congressional seats • Developed impactful GUI visualizations, including dynamic bar charts
<b>Hunter and Prey: An Interactive 2D Shooter Game (Python)</b> • Featured space key as the weapon of choice for precise shooting, and strategic mouse clicks to dictate the hunter's dynamic movements • Compiled multiple functions that execute unique tasks to alleviate process load and make the program efficient
<b>Solitaire Symphony: Graphical User Interface Implementation (Python)</b> • Leveraged Object-Oriented Programming and data structures to employ multiple classes for move validation and encapsulation of game components

## Certificates

Harvard University • Three certificates for satisfactory grades and completion of <b>Fundamental of Neuroscience</b> course	Sep 2020
University of Michigan • Certificate for satisfactory grade and completion of <b>Anatomy: Cardiovascular, Urinary, and Respiratory</b> course	Oct 2020

## Technical Skills

<b>Languages:</b> Python, Java
<b>Libraries:</b> Requests, pandas, NumPy, matplotlib
<b>Developer Tools:</b> Thonny, Eclipse
<b>Additional:</b> Google Workspace, Microsoft Office, Research, Neuroscience, Anatomy