Alex Goldstone

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST COMMONWEALTH HONORS COLLEGE   **Amherst, MA**
Biology and Computer Science Double Major (BS, Dual Degree Candidate)   *August 2021–Present (May 2025)*

- GPA: 3.979/4.0
- Sigma Chi Fraternity, current Scholarship Chair and member of executive board. Currently planning our first networking event in chapter's history. Assist brothers with academics, including both direct tutoring and connecting brothers with school resources
- RA for 2023-2024 academic year
- Relevant coursework includes Mobile Health Sensing & Analytics, Algorithms, Data Genomics Lab, Data Structures, Programming Methodology, Physiology, Cancer Biology, Organic Chemistry w/ Lab
- Taking Data Management (SQL), Comparative Animal Physiology Lab, Software Engineering, and Machine Learning upcoming spring semester

WORK EXPERIENCE

TEACHER'S ASSISTANT, SUMMER PROGRAM COUNSELOR, LAB MANAGER'S ASSISTANT   **Wellesley, MA**
BOSTON LEADERSHIP INSTITUTE   *May 2021- July 2022*

- Co-led Green Chemistry Research class with management, taught laboratory skills and terminology to high school aged students, and maintained a positive learning environment
- Planned and executed group activities including trips to Boston, Harvard Square, Boston Museum of Science, field days, and movie nights
- Created and maintained inventory lists for entire summer program, consisting of over sixty classes
- Managed inventory closets for teachers, gathered supplies for classes and oversaw classroom purchases

PROJECTS

FALL DETECTOR
Implemented Python's Pandas, NumPy, and SciPy libraries to detect and distinguish between different physical activities (such as walking, running, standing, etc.) using mobile accelerometer data. The program can detect if someone has fallen and if they might need assistance

FLUENT BUSINESSES
Implemented a fluent interface with filter and reduce in JavaScript to simulate a search algorithm that will find a business that meets certain criteria, such as within a certain area or having a certain star rating

WEBSITE LOGIN
Created a hash table in Java to store username and password information and implemented both a linear collision handler and a quadratic collision handler to manage storing and searching within the table

SKILLS

- Python, Java, JavaScript, R, C
- Organization & Time Management
- Communication

- OOP, Linux, Data Structures, Debugging
- Leadership
- Problem solving