

Omar H. Osman

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EDUCATION

University of Massachusetts Amherst - Commonwealth Honors College Amherst, MA
Manning College of Information and Computer Sciences Undergraduate, May 2026
Bachelor of Science in Computer Science **GPA: 4.0**

- **Honors:** Commonwealth Honors College student, Chancellor's Merit Award Recipient, Dean's List.

Al Oruba International High School Riyadh, KSA
High Honors Student August 2019 - June 2022
GPA: 4.0

- **Honors:** Awards for Academic Excellence in Chemistry and Mathematics (2020-2022)

SKILLS

- *Programming Languages:* Python, Java, C, SQL, HTML, CSS.
- *IT Skills:* Microsoft Excel, Word, PowerPoint, Google Docs, Sheets & Slides. Troubleshooting Software.
- *Development Tools:* VSCode, Vim, Emacs, MySQL, PopSQL, GitHub, NotePad+, LinuxOS.

EXPERIENCE

Elite Hospital Riyadh, KSA
Secretarial Intern Jan 2022 - April 2022

- Collected, analyzed, and stored data for use in patient reports.
- Supported the maintenance of computer systems, including troubleshooting problems with hardware and software.
- Administered front desk duties by filing >500 patient documents, scheduling >300 appointments with patients over phone-calls and in-person.
- Communicated document details to nurses in collaboration with the medical records department regarding document issues.

Early Research Scholars' Program

Undergraduate Researcher Amherst, MA
Sept 2023 - May 2024

- Engaged in a year-long research program, participating in an intensive team-based approach, collaborating with research advisors and peers in the completion of various projects.
- Contributed to the advancement of knowledge in the discipline by conducting original research, leading to publications and conference presentations in collaboration with the research team.

PROJECTS

Space Scuffles Jan 2023

- Designed and developed a 2D platformer using Pygame, incorporating two different game modes and different control schemes to provide players with varied gameplay experiences and ensure a user-friendly experience.
- Built multiple versions of the game with different control schemes to accommodate various user preferences and ensure a user-friendly experience.

Gradescope Submit

Feb 2023

- Collaborated and Developed the Gradescope Submit project, which utilizes the Selenium module to automate the login process for Gradescope, enhancing user experience by eliminating the need for manual login and allowing users to conveniently view their assignments and projects directly on the terminal.

SwingShift

July 2023

- Engineered and constructed the SwingShift application, employing Java, Java Swing Module, and diverse Java libraries. Produced an intuitive desktop tool for efficient file format conversion, highlighting adeptness in GUI design, library integration, and software development.

RELEVANT COURSEWORK

Introduction to Programming with Python Amherst, MA
Sept 2022 - Dec 2022

- Proficient in Python, gained expertise in variables, data types, functions, loops, and classes, allowing for effective problem-solving and code development.
- Applied object-oriented programming principles to create classes and interfaces, and skillfully utilized data structures like lists, dictionaries, and strings for efficient data manipulation and processing.

Object Oriented Programming

Amherst, MA
Feb 2023 - May 2023

- Utilized and implemented key concepts of the object oriented programming paradigm, including data encapsulation, information hiding, inheritance, and polymorphic methods to solve complex problems.