

# Waldo Abu Al-Afia

<https://github.com/walidabualafia>

## EDUCATION

### Rhodes College (Memphis, TN, USA) – B.S. Computer Science, Minor in Religious Studies:

Expected Graduation: May 2023, Cumulative GPA: 3.94/4.00, Major GPA: 4.00/4.00

Academic Achievements: Jack U. Russell Award for Outstanding Work in Second-Year Computer Science, Dean's List, Honor Roll

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Computer Organization, Discrete Mathematics, Distributed Systems, Operating Systems, Theory of Computation, Artificial Intelligence

### King's Academy (Madaba, Jordan) – High School:

Graduated: May 2019, Cumulative GPA: 3.86/4.00

Academic Achievements: Head of School's Outstanding Leadership Award, Honor Roll, Head Proctor Award

Relevant Coursework: AP Computer Science A

Language Proficiency: Arabic, English

## SKILLS

### Languages

- Python: Proficient
- Java : Proficient
- HTML/CSS: Proficient
- NIOS: Fluent
- Go: Proficient
- C: Proficient
- C#: Proficient
- Swift/Kotlin: Fluent

### Tools/Environments

Bash, tmux, git + GitHub, vi, MacVim, Unity, UNIX, Spark, MapReduce, JupyterHub, IntelliJ, XCode, Visual Studio Code, ROS, adb

## WORK EXPERIENCE / INTERNSHIPS

### Rhodes College, *Robotic Grasping Research Fellow*, Memphis, Spring 2021 – Present

- Designed AR application and accompanying set of user tasks to teach users about robot navigation using Laserscan
- Conducted user study and investigated privacy in tele-presence robots/laser bots
- Contributed to a research project presented in WeRobot 2021 (Miami - Remote)
- Contributed as an author to a paper targeting publication in the International Conference on Social Robotics 2022

### Rhodes College, *Computer Science Head Tutor/Peer Coach*, Memphis, Fall 2021 – Present

- Hired and managed a team of 9 tutors, assigned shifts, and facilitated communication between professors and tutors
- Ensured fairness and facilitated data-collection/analysis by deploying kiosk app for managing student queues

### Rhodes College, *Cloud Application Student Administrator*, Memphis, Fall 2021 – Present

- Managed and maintained cloud-based applications running on Google Cloud Platform, including JupyterHub cluster on Kubernetes
- Integrated cloud applications with OneLogin SSO

### Rhodes College, *Computer Science Tutor/Peer Coach*, Memphis, Fall 2020 – Fall 2021

- Tutored approximately 20 introductory computer science students in one-on-one weekly sessions
- Created customized lessons and individualized help to ensure the best success for the student

### Intrasoft Middle East, *Data Engineering Intern*, Amman, Jordan, Summer 2018

- Created a Bitcoin trading bot that trades based on live Bitcoin data streams
- Learned how to effectively use application programming interfaces (APIs)
- Used Python and Java to program against RESTful APIs

## COMMUNITY INVOLVEMENT

### Rhodes College Class Council, *Vice President & Treasurer*, Memphis, Fall 2019 – Fall 2021

- First-year: Vice President – planned campus-wide events and communicated with a variety of vendors
- Sophomore: Treasurer – write and submit budgets to the Allocations Committee for funding

### Rhodes Students for Justice in Palestine, *Founder and Secretary*, Memphis, Fall 2019 – Present

- Facilitated communication between the club and the members by sending weekly newsletter and handling new members
- Planned the weekly club meetings and took minutes

### Rhodes College Sunrise Hub, *Student Leader*, Memphis, Fall 2020 – Present

- Raised awareness about the rapidly worsening effects of climate change
- Planned and ran biweekly phone bank events during election periods