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Walid Abu Al-Afia

abualafia.com

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, The Joseph Reeves Hyde Award, 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, Virtual Reality, Software Engineering

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
- Bash Scripting: Proficient
- HTML/CSS: Proficient
- Go: Proficient
- C: Proficient
- C#: Proficient
- Swift/Kotlin: Fluent

Tools/Environments

UNIX, Bash, tmux, git + GitHub, Kubernetes, Postman, MapReduce, cnvrg.io, JupyterLab, Blender, Unity, ROS, adb

WORK EXPERIENCE / INTERNSHIPS

St. Jude Children's Research Hospital, *High-Performance Computing Computational Engineer - Intern,* Memphis, Summer 2021
- Developed and built a VR application, ROVR, that delivers training to patients for Radiation Oncology treatments
- Built and deployed a REST API endpoint running RoseTTAFold, a protein-protein complex structure prediction algorithm
- Compiled documentation for other engineers on how to deploy endpoints to St. Jude's in-house HPC clusters

Rhodes College, *Computer Science Head Tutor/Peer Coach,* Memphis, Fall 2021 – Fall 2022
- 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, *Robotic Grasping Research Fellow,* Memphis, Spring 2021 – Fall 2022
- 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 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
- Planned events and communicated with a variety of vendors
- Wrote and submitted event budgets to the Allocations Committee