ALI ALMUALLEM

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SUMMARY

A senior Computer Science student with research experience in Implicit Neural Representations (INRs), Computational Imaging, and machine learning in multiple renowned institutions. Looking to continue working in research and pursuing a Ph.D. in the field.

EDUCATION

Computer Science, Bachelor of Science   **MAR 2023**
Arizona State University, Tempe, AZ   **GPA: 3.97 out of 4.0**

Computer Science, Transfer   **AUG 2019 – JUN 2020**
Seattle Central College, Seattle, WA   **GPA: 3.81 out of 4.0**

RESEARCH EXPERIENCE

Undergraduate Researcher   **AUG 2021 – Present**
School of Art, Media and Engineering at Arizona State University, Tempe, AZ

- Worked with Prof. Suren Jayasuriya on reconstruction problems using implicit neural networks.
- Focused on reconstruction in two applications: Computed Tomography (CT) and sonar.
- Built methods tackle highly ill-posed sparsity problems in sonar.
- Awarded the FURI program research funding to work on memory-efficient CT reconstruction.

Research Intern   **May 2022 – Present**
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia

- Worked with Prof. Wolfgang Heidrich on implicit neural representations (INR) in the Fourier domain.
- Focused on applications of frequency-based INR for inverse problems.
- Hypothesized new methods to enhance the frequency-based rendering and representation with INRs.

Summer Research Intern   **JUN 2021 – AUG 2021**
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia

- Worked in the Visual Computing Center under the supervision of Prof. Peter Wonka on implicit neural networks.
- Implemented different machine learning papers for learning and presenting high frequencies inputs.
- Experimented with various deep learning architectures for representing high frequencies in INRs.

PROFESSIONAL EXPERIENCE

Undergraduate Teaching Assistant   **JAN 2021 – Present**
Ira A. Fulton Schools of Engineering at Arizona State University, Tempe, AZ

- Assisted the main instructor in delivering an introduction to engineering class.
- Revised the course materials and activities and suggested new improvements.
- Reviewed the students' submissions and provided constructive feedback when applicable.

Cloud Solutions Engineer   **MAR 2019 – AUG 2019**
Sahara Net, Dammam, Saudi Arabia

- Performed and administered Microsoft 365 migration for SME clients with more than 600 users.
- Developed and designed cloud-based solutions to replace the clients' legacy systems.
- Studied the clients' on-premise infrastructure and provided better alternatives on the cloud.

System Administrator   **OCT 2017 – FEB 2019**
Sahara Net, Dammam, Saudi Arabia

- Administered multiple Windows and Linux servers with different platforms (cPanel, WHM & Plesk).
- Investigated and debugged a wide spectrum of technical faults, including DNS, mail, and web servers.
- Communicated with corporate clients daily to resolve their web and mail hosting issues.

Customer Care Agent   **JAN 2016 – SEP 2017**
Sahara Net, Dammam, Saudi Arabia

- Managed more than 1500 domains from different domain name providers.
- Developed strategies to mitigate and prevent repetitive technical problems.
- Addressed the clients' complaints through phone, ticketing system, and emails.

TRAINING & COURSES

First Principles of Computer Vision, Columbia University   **June 2022 – Present**

Artificial Intelligence with Python Nanodegree, Udacity   **March 2018**

LEADERSHIP EXPERIENCE

VP, MENA Students Union   **JAN 2021 – May 2022**
Arizona State University, Tempe, AZ

Global Leadership Academy (Intercultural Competence and Communication Track) **AUG 2018 – DEC 2020**
Arizona State University, Tempe, AZ

Scrutineer   **DEC 2018**
FIA Formula E, Ad Diriyah, Saudi Arabia

HONORS

Dean's List

- Fall 2019 Quarter, Seattle Central College, Seattle, WA.
- Winter 2020 Quarter, Seattle Central College, Seattle, WA.
- Spring 2020 Quarter, Seattle Central College, Seattle, WA.
- Fall 2020 Semester, Arizona State University, Tempe, AZ.
- Spring 2021 Semester, Arizona State University, Tempe, AZ.
- Spring 2022 Semester, Arizona State University, Tempe, AZ.

President's List

- Spring 2020 Quarter, Seattle Central College, Seattle, WA.

LANGUAGES

Arabic – Native   **English** – Fluent

REFERENCES

Available upon request.