ALI ALMUALLEM

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https://almuallem.github.io

SUMMARY

An Electrical and Computer Engineering Ph.D. student with industry experience in cloud computing and research experience in computational imaging and computer vision. Making an impact on people's lives through research.

EDUCATION

Electrical and Computer Engineering, Doctor of Philosophy   **AUG 2023**
Purdue University, West Lafayette, IN

Computer Science, Bachelor of Science   **MAR 2023**
Arizona State University, Tempe, AZ   **GPA: 3.94 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 – May 2023**
School of Art, Media and Engineering at Arizona State University, Tempe, AZ

- Worked with Prof. Suren Jayasuriya on reconstruction problems using Implicit Neural Representations (INRs)
- Awarded the FURI program research funding for my work on memory-efficient CT reconstruction.
- Built methods based on INRs to interpolate ill-posed missing angular measurements problem in Synthetic Aperture Sonar.

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

- Worked with Prof. Wolfgang Heidrich on Fourier-Domain Implicit Neural Representations (INR).
- Ran hundreds of experiments to tackle highly ill-posed deblurring and denoising problems in the frequency domain.
- Hypothesized new methods to enhance the frequency-based representation in INRs by learning the correlations between amplitude and phase shift.

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 coordinate-based networks.
- Evaluated different Fourier features positional encodings in implicit neural representations.

PROFESSIONAL EXPERIENCE

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

- Assisted the primary instructor in delivering an introduction to engineering class.
- Revised the course materials and activities and suggested new programming activities.
- Reviewed the students' code submissions and provided constructive feedback when applicable.
- Held sessions to help students with their code, especially students with no background in coding.

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 various technical faults, including DNS, mail, and web servers.
- Communicated with corporate clients daily to resolve their web and mail hosting issues.

TRAINING & COURSES

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

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

LEADERSHIP EXPERIENCE

Technical Officer, The Computer Vision Club at ASU   **Oct 2022 – Present**
Arizona State University, Tempe, AZ

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 AND AWARDS

Research Funding

- The Fulton Undergraduate Research Initiative, Fall 2021.
- The Fulton Undergraduate Research Initiative, Spring 2023.

Dean's List

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

President's List

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

Scholarships

- The New American University Scholarship.
- Saudi Arabian Cultural Mission Scholarship.

LANGUAGES

Arabic – Native   **English** – Fluent

REFERENCES

Available upon request.