Nationality: Saudi ● AlKhobar, Saudi Arabia ● alaqsaakbar@hotmail.com● +966502082200 ● LinkedIn: alaqsa-akbar ● GitHub: alaqsa-akbar

EDUCATION

King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi ArabiaSep 2022 – May 2026BSc in Computer Engineering (Research Concentration with a focus on AI)GPA: 3.95/4.00Georgia Institute of Technology, Atlanta, GA, United StatesAug 2024 – Jan 2025

Exchange student in Computer Engineering

Oxford University, Oxford, United Kingdom

Summer Program in Advanced Artificial Intelligence

Jul 2024 – Aug 2024 Grade: A

GPA: 4.0

WORK EXPERIENCE

Baker Hughes, Houston, TX, USA – Computer Engineer Intern

Jun 2025 – Aug 2025

 Assisted in automation projects by documenting and designing test procedures of embedded systems architectures, and developing machine learning models for abnormality detection

UAS2030, Dhahran, Saudi Arabia – *Al & Control Engineer*

Jan 2025 - Jun 2025

Worked on developing AI and control logic for an unarmed aviation system (autonomous drone)

Georgia Tech OLIVES Lab, Atlanta, GA, United States – Research Assistant

Sep 2024 – Dec 2024

- Worked in Professor Ghassan AlRegib's OLIVES lab on AI research to diagnose optical diseases and detect seismic data
- Managed multiples datasets including terabytes of data: formatting, documenting, and uploading to HuggingFace

SDAIA-KFUPM Joint Research Center for AI, Dhahran, Saudi Arabia — *Researcher*

Feb 2024 – Aug 2024

- Worked with Dr. Abduljabbar Siddiqui on his research on Adversarial Patch Attacks on Object Detectors
- Created a data pipeline to generate a dataset in real time throughout the model training phase using OpenCV
- Modified an adversarial attack library (Adversarial Robustness Toolbox) to train a customized adversarial patch attack model robust against adverse weather conditions such as rain by utilizing a project gradient descent (PGD) algorithm

King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia — Course Grader

Jan 2024 - Jul 2024

- Responsible for grading lab assignments for students in KFUPM's Object Oriented Programming course
- Responsible for grading homework assignments for students in KFUPM's Intro to Programming in Python and C course

RESEARCH/PUBLICATIONS

- Allahham, A., & Akbar, A. (2025). Re-Colonization of Architectural Knowledge through Al: an Echo Chamber. (In progress)
- Akbar, A., & Siddiqui, A. (2025). RainPGD: Investigating Rain-Robust Adversarial Patches. (In publication process)
- Alshehri, I.*, Alshehri, A.*, Almalki, A.*, Bamardouf, M.*, & **Akbar, A**.* (2024, August 31). *BreachSeek: a Multi-Agent automated penetration tester*. arXiv.org. https://arxiv.org/abs/2409.03789 (**Preprint**)

EXTRA-CURRICULARS

Qimam Fellowship, Riyadh, Saudi Arabia – *Fellow*

Mar 2025 – Present

- 50 students selected globally out of 18,000+ applicants to participate in a prestigious leadership mentoring program
 BCG Jeel Tamooh Fellowship, Riyadh, Saudi Arabia Fellow
 Mar 2025 Present
- 150 students selected out of several thousand applicants to be mentored and experience work at BCG

KAUST Academy AI Specialization, Thuwal, Saudi Arabia & Oxford, United Kingdom – Participant

Jan – Aug 2024

- Chosen as one of 15 students from over 7000 applicants to attend summer courses at Oxford University
- Took courses on Deep Learning, Computer Vision, Natural Language Processing, and Deep Unsupervised Learning
 Imaar, Dammam, Saudi Arabia Volunteer

 Feb 2024
- Spent a total of 10+ hours volunteering at a government funded apartment for the needy by assisting in its repairs
 Saudi Mathematics Olympiad Team, Thuwal, Saudi Arabia Member
 2017 2019
- Took 500+ hours of intensive mathematical training at King Abdullah University of Science and Technology
- Represented Saudi Arabia at the Junior Balkan Mathematical Olympiad in Cyprus where Saudi Arabia got 3rd

RELEVANT TECHNICAL SKILLS/COURSEWORK

Computing Languages and Technologies – Python, Java, C/C++, Verilog, Lua, MATLAB, R, Git, Windows, Linux / Unix **Coursework** – Computer Vision, NLP, Deep Unsupervised Learning, Deep Learning, Data Science, Computer Architecture, Data Structures and Algorithms, Object Oriented Programming, Embedded Systems, Computer Networks

ADDITONAL SKILLS AND INTERESTS

Languages: Bilingual in Arabic and English (114 TOEFL)

Interests: Football; Badminton; Video Games

^{*} indicates equal contribution