

Alaqa Akbar

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EDUCATION

King Fahd University of Petroleum and Minerals (KFUPM) , Dhahran, Saudi Arabia	Sep 2022 – May 2026
<i>BSc in Computer Engineering (Research Concentration with a focus on AI)</i>	GPA: 3.95/4.00
Georgia Institute of Technology , Atlanta, GA, United States	Aug 2024 – Jan 2025
<i>Exchange student in Computer Engineering</i>	GPA: 4.0
Oxford University , Oxford, United Kingdom	Jul 2024 – Aug 2024
<i>Summer Program in Advanced Artificial Intelligence</i>	Grade: A

WORK EXPERIENCE

Baker Hughes , Houston, TX, USA – <i>Computer Engineer Intern</i>	Jun 2025 – Aug 2025
<ul style="list-style-type: none">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 – <i>AI & Control Engineer</i>	Jan 2025 – Jun 2025
<ul style="list-style-type: none">Worked on developing AI and control logic for an unarmed aviation system (autonomous drone)	
Georgia Tech OLIVES Lab , Atlanta, GA, United States – <i>Research Assistant</i>	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Worked in Professor Ghassan AlRegib's OLIVES lab on AI research to diagnose optical diseases and detect seismic dataManaged multiples datasets including terabytes of data: formatting, documenting, and uploading to HuggingFace	
SDAIA-KFUPM Joint Research Center for AI , Dhahran, Saudi Arabia – <i>Researcher</i>	Feb 2024 – Aug 2024
<ul style="list-style-type: none">Worked with Dr. Abduljabbar Siddiqui on his research on Adversarial Patch Attacks on Object DetectorsCreated a data pipeline to generate a dataset in real time throughout the model training phase using OpenCVModified 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 – <i>Course Grader</i>	Jan 2024 – Jul 2024
<ul style="list-style-type: none">Responsible for grading lab assignments for students in KFUPM's Object Oriented Programming courseResponsible 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 AI: 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)

* indicates equal contribution

EXTRA-CURRICULARS

Qimam Fellowship , Riyadh, Saudi Arabia – <i>Fellow</i>	Mar 2025 – Present
<ul style="list-style-type: none">50 students selected globally out of 18,000+ applicants to participate in a prestigious leadership mentoring program	
BCG Jeel Tamooh Fellowship , Riyadh, Saudi Arabia – <i>Fellow</i>	Mar 2025 – Present
<ul style="list-style-type: none">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 – <i>Participant</i>	Jan – Aug 2024
<ul style="list-style-type: none">Chosen as one of 15 students from over 7000 applicants to attend summer courses at Oxford UniversityTook courses on Deep Learning, Computer Vision, Natural Language Processing, and Deep Unsupervised Learning	
Imaar , Dammam, Saudi Arabia – <i>Volunteer</i>	Feb 2024
<ul style="list-style-type: none">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 – <i>Member</i>	2017 – 2019
<ul style="list-style-type: none">Took 500+ hours of intensive mathematical training at King Abdullah University of Science and TechnologyRepresented 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

ADDITIONAL SKILLS AND INTERESTS

Languages: Bilingual in Arabic and English (114 TOEFL)
Interests: Football; Badminton; Video Games