

Majed Alrogi

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Education & Honors

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| King Abdullah University of Science and Technology – GPA: 3.92/4.0 | 2023 - December 2024 |
| Masters of Science in Computer Science | |
| Virginia Tech – GPA: 3.89/4.0 | 2019 - 2023 |
| Bachelor of Science in Computer Science with minors in Cybersecurity and Mathematics | |
| KAUST Gifted Student Program, recipient of full-tuition merit scholarship | 2019-2023 |
| Virginia Tech, Dean's List | 2019-2023 |

Experience

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| Software Engineer, IBM | February – Present |
| <ul style="list-style-type: none">Implemented a langchain Pull Request tool that creates, describes, and reviews PRs using the Large Language Models (LLMs) in WatsonX.aiWorked to integrate PR tool into Github as a Github app with webhooks | |
| Software Engineer, Mozn | June – December 2024 |
| <ul style="list-style-type: none">Designed and implemented data sharing procedures between services using proto3 and Apache KafkaUsed FastAPI and sqlalchemy to work on FOCAL, an AI powered crime prevention suiteOptimized mysql queries and gained a speedup of 92% | |
| Research Intern, King Abdullah University of Science and Technology | June – August 2022 |
| <ul style="list-style-type: none">Wrote Installation packages for ExaGeoStat and all its dependencies through the Spack Package ManagerCollaborated with the Barcelona SuperComputing Center to port ExaGeoStat to their containerization engine specialized for HPC programs | |

Projects

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| Multi-Agent Document chat bot | June 2024 |
| <ul style="list-style-type: none">Created a RAG model with a vector DB to answer questions based on a collection of documentsUsed multiple agents such as Llama, chatGPT, and Falcon to produce an optimal answer.Used web sockets to stream the final answer within 4 seconds of the question. | |
| Twitter Emotion Sentiment Analysis | November - December 2023 |
| <ul style="list-style-type: none">Used BERT to classify the emotions conveyed within a dataset of tweets.Classified emotions such as happiness, sadness, fear, and disgust with a testing accuracy of 91%. | |
| Language Classifier | October 2023 |
| <ul style="list-style-type: none">Used Recurrent Neural Networks to classify what language a sequence of text belongs to.Achieved a 71% accuracy across 18 languages. | |

Skills

Libraries: FastAPI, Pytest, Pytorch, Pandas, Scikit-Learn, Temporal, TensorFlow, Matplotlib, React, SciPy
Languages: Python, C, C++, Java, Javascript, Go, Kotlin, SQL, Scheme, MATLAB
Platforms: Docker, Github, Kubernetes, MongoDB, Linux/Unix, AWS, Spark
Soft Skills: Leadership, Communication, Teamwork, Problem Solving, Critical Thinking, Adaptability