



ANTONY ABISAÏD

Computer Engineer

Profile

Fourth-year Computer Engineering student at USEK, Lebanon | AWS Certified SysOps Administrator | Backend Engineering Intern at Anghami. Built microservices and data pipelines serving high-traffic applications using Python, Docker, Kubernetes, and Apache Spark. Ranked #5 at NASA Space Apps Challenge 2025 for exoplanet detection using neural networks. Specializing in cloud infrastructure, ML/AI systems, and data engineering.

Work Experience

JULY -
SEPTEMBER
2025



Anghami

Backend Intern

- Built and optimized backend microservices for high-traffic applications in a cloud-native environment.
- Developed and maintained data processing pipelines for large-scale and streaming data using Apache Spark and Airflow.
- Designed and consumed RESTful APIs to integrate internal services and improve system interoperability.
- Contributed to real-time data processing workflows, enhancing scalability and performance.
- Explored Web-Development frameworks such as Retool to create internal dashboards and web interfaces for data visualization.

February -
March
(ongoing)
2026



Inmind.ai Academy

Data Engineering

- data processing methods Foundation
- PySpark tasks and managing code repositories in TypeScript
- Monitoring data pipelines through checks, schedules, and builds
- Foundry Map for dashboards, filters, and KPI tracking
- Working with machine learning models
- PowerBI for reporting
- Using Contour and Quiver for visuals
- Essential data science concepts

Project

Exoplanet Detection System | Python, TensorFlow, React, LangChain NASA Space Apps Challenge Beirut 2025 - Ranked #5

- Fine-tuned convolutional neural network on Kepler, K2, and TESS astronomical datasets to classify exoplanet candidates with high precision
- Built web interface with LLM-powered conversational agent for real-time predictions and explanations of detection results - Integrated RAG pipeline to provide context-aware responses about exoplanet characteristics and detection methodologies

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Bkeftine, North Lebanon, Lebanon

Education

Bachelor in Computer Engineering

Université Saint-Esprit de Kaslik

Jounieh, Lebanon

2022-present

GPA: 3.95/4

Primary and High School

North Lebanon College

2008-2022

Nationalities

Canadian

Lebanese

Language

Arabic (native)

English (native)

French (intermediate)

AI Agent Framework | Python, LangChain, LlamaIndex, Groq API

- Developed autonomous AI agents with multi-step reasoning and external tool integration using function calling and MCP servers
- Implemented RAG system with Milvus vector database for context-aware query responses, reducing hallucinations in LLM outputs
- Deployed agents as microservices with RESTful APIs for modular integration into distributed workflows

Real-Time RAG System with Web Scraping | Python, LangChain, Kafka, Spark, Milvus, Docker Personal Project

- Built end-to-end RAG pipeline that scrapes and ingests real-time web data using Kafka for streaming and Spark for distributed processing
- Automated data extraction, chunking, and embedding workflows with Airflow, storing vectors in Milvus for semantic retrieval
- Integrated with LLM to provide context-aware responses grounded in live web data, reducing hallucinations through real-time knowledge updates



Technical Skills

Languages & Frameworks

Python, Java, Go, C++, Scala

Machine Learning & AI

TensorFlow, LangChain, LlamaIndex, Transformers, RAG, OpenAI API, scikit-learn, NumPy, Pandas

Data Engineering

Apache Spark, Apache Airflow, Kafka, ETL Pipelines, FAISS, Chroma, Milvus

Cloud & DevOps

AWS (EC2, S3, EKS, RDS), Docker, Kubernetes, CI/CD

Databases & Tools

PostgreSQL, MongoDB, Redis, Git, Linux, Retool



CERTIFICATES AND VOLUNTEERS

- **AWS Certified SysOps Administrator – Associate** (Amazon Web Services)
 - Issued Jun 2025 – Expires Jun 2028
- **NASA Space Apps Challenge Beirut 2025 – Ranked #5**
 - Fine-tuned a neural network to detect exoplanets with high precision using Kepler, K2, and TESS datasets.
 - Developed a web interface integrated with an LLM-powered agent connected to the model for real-time exoplanet prediction.
- **IEEE Webmaster – USEK Student Branch (Since 2025)**
 - Maintained and enhanced the branch's website and online platforms; managed member registration and event automation systems.
- **IEEE Xtreme Programming Competition**
 - Ranked #21 in Lebanon (2025) and #26 in Lebanon (2023).
- **Semicolon Cybersecurity Competition (June 2025)**
 - Ranked #15 across Lebanese universities, focusing on practical cybersecurity problem-solving and network exploitation challenges.
- **Member – BEIC** (Beirut Erasmus International Club)