



ANTONY ABISAÏD

Computer Engineer

PROFILE

Fourth-year Computer Engineering student specializing in Data Engineering, with a strong foundation and hands-on experience in Cloud Infrastructure and ML/AI systems. Currently seeking to apply these integrated technical skills to solve complex data challenges within a forward-thinking engineering team.



WORK EXPERIENCE

JULY -
SEPTEMBER
2025



Anghami

Backend Intern

- Built and optimized backend microservices for high-traffic applications in a AWS 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.



PROJECTS

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

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 For USEK Website | Python, LangChain, Kafka, Spark, Milvus, Docker Personal Project

- **Ingestion:** Engineered a Python scraper for USEK site data, processed via Apache Spark for distributed cleaning and chunking.
- **Vector Storage:** Generated embeddings using all-MiniLM-L6 and indexed data in Milvus for high-speed semantic retrieval.
- **Deployment:** Integrated gpt-oss-120b for context-grounded responses, delivered through a custom Gradio web interface

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[Linkedin](#)

Bkeftine, North Lebanon,
Lebanon

EDUCATION

Bachelor in Computer Engineering

Université Saint-Esprit de Kaslik

Jounieh, Lebanon

2022-2026 (Expected)

GPA: 3.96/4

Primary and High School

North Lebanon College

2008-2022

NATIONALITIES

Canadian

Lebanese

LANGUAGE

English (Fluent)

Arabic (native)

French (intermediate)

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

SOFT SKILLS

- Critical Thinking Skills
- Time Management
- Adaptability
- Attention to Details

TRAINING AND CERTIFICATIONS

AWS Certified SysOps Administrator – Associate (Amazon Web Services)

- Issued Jun 2025 – Expires Jun 2028

Inmind.ai Academy – Data Engineering Track (Spring 2026)

- **End-to-End ETL:** Architecting robust pipelines using Palantir Pipeline Builder and Code Repositories.
- **Large-Scale Processing:** Developing distributed data transformations with PySpark and managing version-controlled TypeScript codebases.
- **Operational Health:** Managing pipeline reliability through automated Schedules, Builds, and Data Health Checks.

VOLUNTEER

- **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.
- **IEEEXtreme 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)