

Jad Al Halabi

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EDUCATION

Lebanese American University (LAU)

Bachelor of Science in Computer Science

Relevant Coursework: Data Science, Machine Learning, Cloud Computing

Graduated December 2024

Beirut, Lebanon

WORK EXPERIENCE

COG Developers

March 2025 – June 2025

Data Science Intern (Full-Time)

- Built and deployed an AI-powered news analysis pipeline using LangChain, GPT API, and Flask for API development, hosted on AWS EC2, that extracts events, organizations, and locations from articles, predicts the most likely country of occurrence, and supports translation, entity recognition, and prompt-based reasoning—improving accuracy from 87% to 93%.
- Automated data extraction and social media interactions (Facebook, Instagram, Twitter) using BeautifulSoup, Selenium, and reverse-engineered APIs.
- Researched and benchmarked LLMs (Perplexity, Gemini, DeepSeek) to evaluate capabilities and integration for production use..

Lebanese American University (LAU)

Graduate Assistant (Part-Time)

September 2024 – March 2025

- Cleaned, preprocessed, and analyzed large datasets with Pandas, NumPy, and visualized insights using Matplotlib/Seaborn.
- Developed and optimized predictive models with advanced ML techniques primarily XGBoost, feature selection, and hyperparameter tuning
- Achieved 84% model accuracy, demonstrating strong analytical skills and data-driven decision-making.

Integrated Digital Systems (IDS)

August 2023 – September 2023

Full Stack Developer Intern

- Developed a Meeting Room System incorporating user management, event scheduling, and content management features using ASP.NET Core MVC and RESTful APIs. Implemented secure authentication methods that enhanced user data security by 40%, ensuring seamless data flow between dual admin and public interfaces.
- Enhanced technical skills in .NET, C#, SQL Server, and ASP.NET Web API to deliver secure back-end functionality, while also advancing front-end expertise in HTML5, CSS3, JavaScript, Bootstrap, and jQuery.

CERTIFICATIONS

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| ▪ AWS Certified Cloud Practitioner | December 2024 – December 2027 |
| ▪ AWS Knowledge: Cloud Essentials | December 2024 |
| ▪ Supervised Machine Learning: Regression and Classification from Stanford Online & DeepLearning.AI | February 2025 |
| ▪ Advanced Learning Algorithms from Stanford Online & DeepLearning.AI | August 2025 |

PROJECTS

- **AI-powered News Analysis Pipeline:** This project uses LangChain and OpenAI's GPT models to extract events, organizations, and locations from news articles, then predicts the most likely country where the event occurred. It supports translation, entity recognition, and prompt-based reasoning, making it ideal for real-time or batch news analysis.
- **SleepDisorderPredictor:** Developed a ML model to predict sleep disorders using health data, implementing algorithms like Naive Bayes, achieving 52% test accuracy to assist in identifying risk factors.
- **ChatNet:** Developed a TCP/IP-based chat application with reliable message exchange, packet loss handling, duplicate avoidance, and file transfer support, ensuring synchronization for reconnecting peers.

SKILLS

Technical Skills: Python, TensorFlow, NumPy, Pandas, Scikit-Learn, Java, C, SQL, PHP, HTML, CSS

Data & Research: Machine Learning, Data Visualization, Statistical Analysis

AWS: Knowledge in AWS Infrastructure and Cloud Computation