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# Jad Al Halabi

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## EDUCATION

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### 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

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### COG Developers

**March 2025 – Present**

Data Science Intern (Full-Time)

- Built an AI-powered news analysis pipeline using **LangChain**, **OpenAI GPT API**, and **Flask**, extracting and predicting geographic information from global news content.
- Created and deployed Twitter bots capable of generating and posting content that closely mimics human behavior.
- Researched and evaluated **LLMs** (e.g., **Perplexity**, **Gemini**, **DeepSeek**) to assess their capabilities and integration potential in production environments.
- Automated social media scraping and interaction on **Facebook** and **Instagram** using **BeautifulSoup**, **Selenium**, and reverse-engineered APIs.
- Delivered scalable solutions across **data extraction**, **NLP**, and **automation**, demonstrating initiative, rapid learning, and hands-on deployment of AI tools.

### Lebanese American University (LAU)

Graduate Assistant (Part-Time)

**September 2024 – March 2025**

- Cleaned and preprocessed large datasets using Pandas and NumPy, ensuring data consistency and integrity.
- Performed exploratory data analysis (EDA) and created data visualizations using Matplotlib and Seaborn.
- Optimized model performance through feature selection and hyperparameter tuning.
- Achieved a model accuracy of 84%, demonstrating strong analytical and critical thinking skills in data-driven decision-making.
- Applied advanced machine learning techniques, including XGBoost, to develop predictive models.

### 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**

## PROJECTS

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- **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.
- **FaceRecognition Using EigenFaces:** Developed an optimized EigenFace algorithm for facial recognition using parallel computing (OpenMP, MPI, CUDA C), enhancing computation speed by 80% and achieving superior performance and scalability for real-time applications like security systems.
- **Flutter Tutoring Application:** Developed a tutoring application as a final project for the Mobile Application course at LAU, with student/tutor roles, subject selection, and real-time updates and notifications using Firebase.

## EXTRACURRICULAR & VOLUNTEER ACTIVITIES

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- Computer Science Club member **2022 – 2025**
- AWS Innovate Online Seminar Attendee

## SKILLS

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**Technical Skills:** Python, Java, C, SQL, PHP, HTML, CSS

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

**Tools:** Microsoft Excel, PowerPoint, Teams

**AWS:** Knowledge in AWS Infrastructure and Cloud Computation

**Languages:** English (Fluent), Arabic (Fluent)