

Nancy Abdallah

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SUMMARY

Computer and Communications Engineering graduate with a 3.94 GPA from the American University of Beirut. Experienced in backend development, full-stack web applications, network configuration, and machine learning. Proficient in Python, Java, Flask, Node.js, MySQL, PostgreSQL, and other development tools.

PROFESSIONAL EXPERIENCE

TECHNICAL ANALYST INTERN

Beirut, Lebanon

Techvitis

October 2025 – December 2025

- Completed training on IT, Cloud, and monitoring fundamentals.
- Projects including setting up Ubuntu OS VMs on AWS and running docker containers in an isolated network (AWS VPC).
- Using AWS managed services like RDS to communicate with nginx web servers, acting as a reverse proxy to a flask application.
- Monitoring applications and containers using Amazon CloudWatch and Splunk observability platform.

CONTRACTOR – SOFTWARE DEVELOPER

Remote

Route2V5

March 2025 – June 2025

- Designed and implemented a database model for tracking customer orders and inventory operations.
- Developed a Node.js server to receive and process Shopify webhook data, storing it in a separate hosted system.
- Customized Shopify's Liquid themes to enhance UI/UX for client storefronts.

INFORMATION TECHNOLOGY INTERN

Beirut, Lebanon

Dar Al-Handasah

June 2023 – July 2023

- Configured Mikrotik routers and set up VLAN/LAN network structures.
- Deployed and managed virtual machines using VMware vCenter and ESX server.
- Developed a full-stack sign-up page using the MERN stack and integrated it with MySQL.

EDUCATION

AMERICAN UNIVERSITY OF BEIRUT; GPA:3.94/4

Beirut, Lebanon

Bachelor of Engineering, Major in Computer and Communications Engineering

2020-2024

PROJECTS

CV ANALYSIS SYSTEM - Personal Project

February 2025

- Built an automated tool to extract personal details, education, work experience, skills, and certifications from PDFs and Word docs using OCR and a LLM (Gemini 2.0 Flash).
- Integrated Gemini 2.0 Flash LLM API for advanced data querying and candidate-job matching through a chatbot interface built in Flask and Python.

SENTIMENT ANALYSIS - Data Centric Engineering

June 2024

- Implemented a project in which we trained a logistic regression model to analyze tokenized and vectorized (fastText vectors) text, achieving 84 percent accuracy in sentiment classification.

ANALYZING INSTANT MESSAGING APPS USING AI- Final Year Project

June 2024

- Conducted thorough analysis of user metadata from telecom data to extract insights while ensuring compliance with data privacy regulations.
- Pre-processed the data and employed machine learning algorithms (logistic regression, k-means) to learn the patterns within a certain application and classify unknown applications effectively.

HOTEL DATABASE - Database System

December 2023

- Developed a PostgreSQL database with efficient, normalized data models and complex queries to support clean, consistent data.
- Integrated the system with a Flask-based Python web interface to enhance accessibility and user experience.

AUB COVAX APPLICATION - Network Systems

June 2023

- Developed user-friendly interfaces in Android Studio while ensuring seamless communication through web sockets with the backend coded in Python.
- Connected the backend to a MySQL database which stored the appointments, users, and medical staff.

SKILLS

- Programming: Python, Java, C++, JavaScript, HTML, CSS
- Frameworks & Tools: Flask, React, Node.js and Express.js, TensorFlow, scikit-learn
- Databases: MongoDB, MySQL, PostgreSQL