

Fadel Danab

Software engineer | Web Development | Machine Learning Engineer | AI Engineer
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Education

Lebanese International University, Saida, Lebanon

(In Progress)

Master of Science in Computer Science

Lebanese International University, Saida, Lebanon

Oct 2020 - Jan 2024

Bachelor of Science in Computer Science

GPA: 3.49 / 4.00 | Dean's Honor List (2023-2024)

Recognized for academic excellence and active contributions to departmental initiatives.

ZAKA AI, Remote

May 2025 - Oct 2025

Machine Learning Engineer Trainee

- Completed a 20-week intensive training program covering supervised/unsupervised learning, deep learning, NLP, computer vision, and ML deployment.
- Applied AI models in simulated production environments and performed research-driven experimentation.

Professional Experience

Internship ZAKA AI

Machine Learning Engineer Trainee

Aug 2025 - Oct 2025

- Developed an **AI-powered presentation generation system** that converts user prompts into structured PowerPoint slide decks.
- Designed a **content generation pipeline** to transform raw ideas into organized slides (Title, Agenda, Problem, Solution, Methodology, Results, Conclusion)..
- **Fine-tuned a language model** on a custom dataset and predefined slide schema to ensure consistent formatting and professional content structure.
- Integrated **AI image generation** to automatically create relevant visuals, improving slide quality and presentation engagement.
- Applied **prompt engineering and output validation techniques** to enhance generation accuracy, coherence, and reliability.
- Evaluated and iteratively improved the system using **academic and business presentation use cases**.

Freelance, Remote

Freelance Web Developer

Apr 2023 - Jan 2024

- Designed and deployed full-stack web apps with responsive UI and dynamic backend logic.
- Built platforms, including a doctor appointment system and a car rental platform with integrated pricing and booking logic, and others.
- Integrated AI APIs and developed RESTful APIs using PHP and Express.js

Neubility, Remote

Feb 2023 - Nov 2023

South Korean robotics company developing autonomous delivery robots using sensor fusion and AI.

Freelance Data Annotator

- Supported vehicle detection model development by annotating objects in LiDAR point clouds and camera images.
- Aligned 2D and 3D bounding boxes using AWS-based tools, ensuring multi-view consistency and correcting annotation errors.

Certifications

Microsoft PL-300T00 - Data Analysis with Power BI, 2025

- Completed hands-on training in data preparation, modeling, and visualization using Power BI, including DAX formulas and interactive dashboards.

IBM Machine Learning Professional Certificate, Coursera, 2024

- Deep Learning and Reinforcement Learning (Dec 2024, 32 hrs.)
- Unsupervised Machine Learning (October 2024, 23 hrs.)
- Supervised Machine Learning: Classification (September 2024, 24 hrs.)
- Supervised Machine Learning: Regression (August 2024, 20 hrs.)
- Exploratory Data Analysis for Machine Learning (August 2024, 14 hrs.)

AI Integration Workshop |Hariri Foundation for Sustainable Human Development| Jun 2024

Machine Learning & AI Workshop | Oreyeon Company | Jul 2024

• Gained hands-on experience in computer vision, machine learning, and deploying AI-powered applications using AWS cloud services.

Technical Skills

Programming & Web Development: *Python · JavaScript · PHP · SQL · HTML5 · CSS3 · AJAX · jQuery · Node.js · Express.js · REST APIs · Responsive Web Development*

Databases & Backend: *MySQL · PostgreSQL · MS SQL Server · Database Management · API Development · Server-Side Development*

AI & Machine Learning: *Scikit-Learn · NumPy · SciPy · Pandas · NLTK · TensorFlow · Matplotlib · Statsmodels · Jupyter Notebook · Supervised/Unsupervised Learning · Deep Learning · NLP · Computer Vision · Model Evaluation · Feature Engineering*

Machine Learning Techniques: *Linear/Logistic Regression · Regularization · Classification · Clustering · Neural Networks · Feature Engineering · Model Evaluation*

Tools & Technologies: *Git · GitHub*

Languages & Additional Information

- Language: Arabic (Native) · English (B2 – Upper Intermediate)
- Awards: Dean's Honor List (2023–2024), Lebanese International University
- Activities: Mentored students on academic and technical projects (web & ML)

Interests: Artificial Intelligence · Digital Transformation · AI-Powered Web Development · Chatbot & Conversational AI · Intelligent Automation · Computer Vision · Educational Technology