

Fatima Fneich
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ABOUT

Technical Consultant with hands-on experience in FIRCO Compliance systems and SWIFT infrastructure. Skilled in workflow configuration, sanctions list management, multi-stage filtering, and backend/frontend support. Strong foundation in troubleshooting and problem-solving, developed through both academic research and operational experience in financial technology environments.

EDUCATION

American University of Beirut

Master's in Computational Science **2020 – 2025**, Lebanon
Relevant Courses Taken: Neural Networks, Machine Learning, Computational Physics, Discretization Method for Differential equations, Optimization & Non-Linear Problem, Intro. to Stochastic Processes
Graduate Assistant Full Scholarship. **GPA: 3.57**

Lebanese University

Master 1 in General Physics **2018 - 2019**, Lebanon

Lebanese University

Bachelor of Science in General Physics **2013 - 2016**, Lebanon

PROFESSIONAL EXPERIENCE

Allied Engineering Group (AEG)

06/2025 – Present, Lebanon

Compliance Department

Position held: Technical Consultant for Compliance Systems (Firco)

- Installed, configured, and supported FIRCO Continuity v5 and v6, contributing to end-to-end implementation activities, including associated utilities (FMM, FML, FLV)
- Supported backend (server-level) and frontend (application-level) operations to ensure stable and efficient platform performance
- Delivered compliance implementation and operational support for regional and international banks
- Supported MT-to-MX message conversion and ensured accurate mapping of message fields in the score file for compliance processing and reporting
- Provided technical support for complex compliance cases by testing and validating financial messages using FLV, analyzing screening issues, and tuning configurations and algorithms to optimize detection accuracy
- Designed and maintained FML rules aligned with validated business and regulatory requirements to optimize hit handling
- Managed sanctions and reference lists, identifying and resolving data inconsistencies and list-related issues
- Configured backend components and monitored system logs to analyze issues and ensure overall system stability

Service Bureau Department

Position held: SWIFT IT Operator

01/2024-05/2025, Lebanon

- Performed database recovery, scheduled system backups, and monitored disk space across multiple SB-secure zones
- Configured and monitored SWIFT messaging infrastructure, including FIN, MX, and MT-to-MX conversion routing rules

- Installed and configured ADK components on the SWIFT environment
- Provided first-level user support, including user access provisioning, password resets, and account lock/unlock, ensuring compliance with internal security protocols
- Conducted log analysis and performed troubleshooting for network connectivity and platform-level issues
- Assisted in monitoring message queues, ensuring smooth message flow and timely escalation of issues

American University of Beirut

Mathematics Department

10/2023 to 1/2024, Lebanon

Position held: Research Assistant

- Testing the performance (runtime and convergence) of different methods for solving the inverse problem resulting from the calibration of mathematical model to Tumor Growth research

Maroun Semaan Faculty of Engineering and Architecture

10/2023, Lebanon

Artificial Intelligence and Data Science Program

Position Held: Teaching Assistant

- Organized interactive remote Q&A sessions for students and assisted in teaching a machine learning course

Computer Science Department

01/2019 - 5/2022, Lebanon

Position held: Research and Teaching Assistant

- Machine Learning Research: Fine-tuned the AraBART model for post OCR correction in Arabic
- Performed an in-depth analysis of research findings
- Addressed computational challenges pertaining to our dataset by optimizing the training script
- Taught Discrete Structure course and conducted weekly recitation sessions for a group of 50 students

INTERNSHIP

Ganil

1/6/2017-1/7/2017, Caen, France

Contributed to theoretical modeling and statistical data processing in nuclear physics

PROJECTS

- Images Into Arabic speech: creating an end-to-end model that converts images into Arabic speech
- Translation Model: Developing a Word-Level to translate from English to Arabic
- Automate Recognition of Leaders in News Content: developing a model for image classification
- Reconstruction of Images from X-ray Projections: utilizing optimization techniques to achieve sparse tomography

SKILLS

Financial Systems & Messaging: FIRCO Compliance Solutions, SWIFT Messaging (FIN, MX), Message Routing & Configuration, Sanctions Filtering , Batch & Real-Time, Processing User Access Management

Infrastructure & Support: System Monitoring & Log Analysis, Database Backup & Recovery, Basic Troubleshooting, Server Backups & Disk Monitoring

Programming & Tools: Python, SQL, XML, XSLT, XPath, Tableau, MATLAB, C++, LaTeX

IT Infrastructure: Server Backups, Disk monitoring, Database Recovery

Data & Analytics: Data Modeling, Visualization, Statistical Analysis, Machine Learning Models

Soft Skills: Problem-Solving, Research & Documentation, Time Management, Team Collaboration, Adaptability & Learning Agility, Strong analytical thinking

Languages: Arabic (native), English (fluent), French (fluent)