

Charbel FAYAD

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EDUCATION

Lebanese American University (LAU): School of Arts and Sciences	Byblos, Blat
BS, Computer Science (Honors Program)	09/2021 – 06/2024
CGPA: 3.98, MGPA: 4 (High Distinction)	
National Orthodox High School	Akkar, Halba
GPA: 3.8 (20 th Place in Lebanese Baccalaureate)	07/2021
Languages: Arabic (Native), French (Full Professional Proficiency), English (Full Professional Proficiency)	

EXPERIENCE

Software Integration Engineer – Murex	06/2024 – present
<ul style="list-style-type: none">Develop and maintain secure, scalable integrations between Murex and external systems using MuleSoft and Mule 4.Design, manage, and document REST/SOAP APIs to support integrating over 40 systems.Collaborate with stakeholders to gather requirements, define test scenarios, and deliver business-aligned solutions.Enhance efficiency through automation scripts, CI/CD Jenkins pipelines, and internal support tool development.	
Machine Learning Research – Lebanese American University	03/2022 – 06/2024
<ul style="list-style-type: none">Developed a genetic programming algorithm to be incorporated in federated learning techniques.Designed a new algorithm to exploit population structure in evolutionary algorithms.Collaborated with researchers on an ensemble learning model inspired by network science.Technologies: TensorFlow, Keras, DEAP, networkx, numpy, pandas	
Software Engineering Internship – NinjaCo	2023 – 3 months
<ul style="list-style-type: none">Designed a complex parser and an algorithm to use web-based visual programming on physical Arduino.Implemented CI/CD pipeline reducing release cycle times by 30%Technologies: NextJs, NestJs, Docker, MongoDB, Mongo Express, Minio, Maildev, Tailwind CSS, React Query, Blockly	
Full Stack Software Engineer Internship – Ajjem.com	2022 – 3 months
<ul style="list-style-type: none">Developed and maintained an e-commerce web application using Next.js, Strapi, and PostgreSQL.Participated in code reviews and provided feedback to improve code quality.Technologies: NextJs, Strapi, Docker, PostgreSQL, Minio, Maildev, Tailwind CSS	

PROJECTS

NinjaCo	03/2023
Created a Full Stack website, that enables kids to code Arduino and Html using visual programming in a fully customizable editor with a clean user interface. The platform uses a course-based enrollment system • Live Preview	
Attractors Simulation	05/2022
Developed a fully customizable physics-based simulation of a deterministic chaotic system using JavaScript canvas context 2d, HTML and CSS. Hosted on GitHub pages • Live Preview • Source Code	
Tourify	11/2022
Published a full stack mobile application that help tourist explore Lebanon. Frontend in Ionic Angular coupled with a PHP Backend with MySQL as Database. The application source code and preview are available • Source Code	

TECHNICAL SKILLS

Programming Languages: JavaScript – Python – Java – TypeScript – Csharp – Rust – C – Dart – PHP
Frameworks / Libraries: React – NodeJS – Fast API – Flutter – React Native – Tailwind – NextJs – Flask – Strapi
Database: MySQL – Firebase – PostgreSQL – SQLite – MongoDB

SOCIAL SERVICES

Software Engineering Club Founder – LAU – Founded SE club at LAU, hosted workshops, and technical seminars.
Lab Instructor – LAU – Operating System & Computer Programming, assisted students by explaining programming principles.