

Charbel FAYAD

1302, Mastita, Byblos • 00 961 70-353-574 • charbelfayad64@gmail.com • [LinkedIn](#) • [GitHub](#)

EDUCATION

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

EXPERIENCE

Machine Learning Research – Lebanese American University <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 different machine learning projects.Technologies: TensorFlow, Keras, DEAP, networkx, numpy, pandas	2023 – present
Software Engineering Internship – NinjaCo <ul style="list-style-type: none">Developed a full stack web-based portal for the company, including 3 user types.Designed a complex parser and an algorithm to use web-based visual programming on physical Arduino.Successfully managed cross-functional team projects, ensuring timely delivery, and achieving project goals.Implemented CI/CD pipeline reducing release cycle times by 30%Technologies: NextJs, NestJs, Docker, MongoDB, Mongo Express, Minio, Maildev, Tailwind CSS, React Query, Blockly	2023 – 3 months
Full Stack Software Engineer Internship – Ajjerni.com <ul style="list-style-type: none">Developed and maintained an e-commerce web application using Next.js, Strapi, and PostgreSQL.Collaborated with team members to troubleshoot and resolve technical issues.Participated in code reviews and provided feedback to improve code quality.Technologies: NextJs, Strapi, Docker, PostgreSQL, Minio, Maildev, Tailwind CSS	2022 – 3 months

PROJECTS

NinjaCo 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	03/2023
Attractors Simulation 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	05/2022
Tourify 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	11/2022
Personal Website Worked on my portfolio to display my projects and information about me in a creative manner. Used NextJs with Typescript and tailwind, hosted on Netlify. Live Preview • Source Code	03/2022

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, assisted students in the course lab by explaining programming principles.