

Jean Paul Choukrallah

PROFESSIONAL SUMMARY

Computer Science student with strong foundations in software engineering, artificial intelligence, and system design. Experienced in developing scalable full-stack and mobile solutions, integrating secure data handling, on-device AI inference, and efficient database architectures. Passionate about solving real-world problems through innovative technology, with a collaborative mindset and commitment to continuous learning and technical excellence.

WORK EXPERIENCE

CREATOR & DEVELOPER

Sep 2025 — Present

AidEye – First Aid AI Assistant

- Developed a cross-platform emergency response mobile application using Flutter with an intuitive, emergency-focused UI/UX.
- Implemented secure authentication with Firebase (session persistence, role-based access) and encrypted local storage for medical profiles and emergency contacts.
- Integrated real-time injury detection using YOLOv8n for object detection and CNN-based classification, optimized and deployed with TensorFlow Lite (TFLite) for on-device inference.
- Enabled live camera preview with injury bounding-box overlay, confidence labeling, and strict non-storage of video frames for privacy compliance.
- Designed a first-aid guidance engine delivering short, step-by-step instructions in both text and audio (TTS), with replay functionality.
- Built a rule-based chatbot supporting text and voice interaction, dynamically linked to detected injuries.
- Integrated GPS and Maps APIs for live location display, nearby hospitals, one-tap emergency calls, and automated contact notifications.
- Followed Agile methodology across structured sprints, including AI evaluation, performance optimization, and full-system integration testing.

INTERNSHIP - FRONTEND DEVELOPER

May 2025 — Aug 2025

FOO_ Mobi

Sin El Fil, Beirut

- Developed a full-stack e-commerce platform with a modern and responsive design, supporting both web and mobile users.
- Frontend: Built using Angular for dynamic UI and seamless user experience.
- Backend: Developed with Laravel, implementing secure RESTful APIs and business logic.
- Database: Integrated MySQL for structured and efficient data management.
- Server: Deployed and tested locally using XAMPP.
- Cross-Platform Support: Utilized Ionic and Progressive Web App (PWA) technologies to ensure compatibility across web and mobile devices with offline capabilities.
- Development Process: Followed Agile methodologies with iterative development, regular sprints, and backlog refinement for efficient and flexible project delivery.

CREATOR & DEVELOPER

Jan 2025 — May 2025

ByteForBite – Food Donation Platform

- Implemented a full-stack Android/Web application to connect food donors (restaurants) with NGOs and individuals in need.
- Applied Agile Methodologies using the Scrum framework, including backlog creation, sprint planning, and retrospectives.
- Participated in requirement analysis, designing the PostgreSQL database, and building both frontend (HTML/CSS) and backend logic.
- Developed a user-friendly web interface focused on accessibility and intuitive design.

DEVELOPER

Mar 2025 — Apr 2025

Pac-Man AI Game

- Built a interactive Pac-Man game in Python using Pygame and object-oriented design principles.
- Implemented various search algorithms (DFS, BFS, UCS, A*) to control Pac-Man's movement intelligently and efficiently.
- Optimized the game's performance and visual interface to enhance the user experience.

DEVELOPER

Apr 2022 — Jun 2022

Snake Game – Python Final Project

- Created a classic Snake game using Python as a demonstration of early programming skills.
- Won First Prize in the school-wide coding competition.
- Showcased basic logic implementation, score tracking, and collision detection.

EDUCATION

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Lebanese American University - GPA 3.85/4.00

Aug 2023 - May 2026

Blat - Jbeil, Lebanon

- Deans Distinguished List (Fall 2023, Spring 2024, Fall 2024, Spring 2025)
- USAID Merit Scholarship

LEBANESE BACCALAUREATE, LIFE SCIENCES

Rosary Sisters School

Jan 2008 - Jan 2023

Blat - Jbeil, Lebanon

- Valedictorian Class of 2023
- Lebanese Baccalaureate: 18.89/20

SKILLS

Python, Java, C, JavaScript, PHP, Dart, HTML/CSS, Assembly, Flutter, Angular, Laravel, Ionic, Bootstrap, jQuery, PWA, RESTful APIs, YOLOv8n, CNN Classification, TensorFlow Lite, On-device Inference, MySQL, PostgreSQL, SQLite, MongoDB, Firebase Authentication, XAMPP/WAMP, Git/GitHub, VS Code, Android Studio, OOP, Data Structures & Algorithms, Software Development Life Cycle, Agile (Scrum, Kanban), Encryption & Secure Data Handling.

COURSES

MILLENNIUM FELLOWSHIP PROJECT CERTIFICATE

United Nations Academic Impact

Oct 2024 — Jan 2025

ONLINE CERTIFICATE IN HTML/CSS/JAVASCRIPT, PYTHON, LINUX

Coursera

Dec 2024 — Dec 2024

BEIRUT MARATHON VOLUNTEERING

Nov 2024 — Dec 2024

SWIM BEACH CLEANING INITIATIVE

SWIM

Oct 2023 — Feb 2024

PYTHON FINAL PROJECT AWARD – FIRST PRIZE

Feb 2022 — Feb 2022

LANGUAGES

Arabic(*Native*), English(*C1 - Advanced*), French(*B2 - Upper intermediate*).

HOBBIES

Scout Member (2015–2019): Leadership, teamwork, critical thinking, and time management, Volunteer Work (2023–Present): Focus on community service and soft skills/ Students mentoring and tutoring (volunteered with LifeSculpture, SWIM, LAU SRO, Bonheur du Ciel, RedCross Lebanon), Workshops in Various Subject: Dance, technology , presentation skills, self motivation, and more, Chorus & Acting : Enhanced communication, self esteem, and confidence