

Charbel EL Bechaalany

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Education

Computer & Communication Engineering | Antonine University, Baabda | Sep 2021 – Jun 2026

Work Experience

Software Development Intern | BUTEC, Beirut | Feb 2026 – May 2026

- Enhanced and maintained features across a careers application website using C# and .NET Framework.
- Completed professional training in Microsoft Power Platform, covering Power BI, Power Apps, and Power Automate.
- Built 3+ interactive reports and dashboards in Power BI to visualize and analyze business data.
- Architected a business application in Power Apps and configured an automated multi-stage approval workflow using Power Automate.
- Designed the UI/UX of the application using Power Pages, applying JavaScript, HTML, and CSS for a customized user experience.

Software Engineer Intern | Intersektion, Resource Group, Beirut | Aug 2024 – Sep 2024

- Built and maintained a backend system using .NET Core, integrated with a Flutter mobile application across 5+ REST API endpoints.
- Produced comprehensive API documentation and conducted testing using Postman and Swagger, covering functionality and performance.
- Demonstrated rapid proficiency in .NET Core, Flutter, and Git, enabling on-time project delivery.
- Collaborated with a cross-functional team via Microsoft Teams and GitHub, ensuring alignment on milestones and timely delivery.

Projects

Smart Gym Station (Final Year Project)

- Built a smart triceps pushdown gym station integrating Arduino UNO R4 WiFi firmware with an HC-SR04 ultrasonic sensor for real-time repetition tracking.
- Architected the MQTT communication layer (Mosquitto broker on Raspberry Pi) connecting the firmware, mobile app, and AI subsystem in real time.
- Integrated a Flutter/Flame training game with three exercise modes and an AI pose estimation module (MediaPipe) for form feedback.

Smart School Bus Safety System (IoT & Mobile Application)

- Built an IoT system using Raspberry Pi and Python, integrating RFID access control, GPS tracking, sensor monitoring, and live video streaming.
- Implemented a cross-platform mobile app (Android Studio/Java/Kotlin) for real-time location tracking, alerts, and live stream access.
- Configured MQTT communication and Firebase for real-time messaging and cloud data storage.

Backend System for Betting Transactions

- Designed a secure REST API backend in .NET Core with JWT authentication and role-based access control (Super User, Admin).
- Integrated a Flutter mobile application for seamless real-time data retrieval from the backend.
- Implemented SQL Server stored procedures for efficient transaction data processing and retrieval.

Technical Skills

Programming Languages: C++, C#, Java, Python

Web Technologies: HTML, CSS, JavaScript, Laravel (MVC)

Backend & APIs: Node.js, .NET Core, .NET Framework, REST APIs, SQL Server, Git, Postman

Mobile Development: Android Studio (Java/Kotlin), Flutter

Microsoft Power Platform: Power BI, Power Apps, Power Automate, Power Pages

Tools & Practices: GitHub, Microsoft Teams, Swagger, Agile

Languages

Arabic – Native French – Full Professional Proficiency English – Full Professional Proficiency