

Zouheir Nakouzi

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EDUCATION

Beirut Arab University

Bachelor of Engineering in Computer Engineering, GPA: 3.46

Aug 2024

Dibbiyeh, Lebanon

- Ranked 1st Place in 4th Level among 18 students with a 4.0 semester GPA

WORK EXPERIENCE

Alien War Lounge

Jul 2023 – Sept 2023

Mobile Application Developer.

Saida, Lebanon

- Developed a Flutter mobile application allowing customers to view their account details at the internet café
- Released the Alien War Lounge App on Play Store and App Store achieving over 100 downloads
- Enabled push notifications through Firebase Cloud Messaging
- Monetized the app by including ads from AdMob
- Added QR code login for a faster, smoother user experience

PROJECTS

CropSync. Crop Monitoring Platform with AI, IoT, and a Flutter Mobile Application

github.com/ZouheirN/CropSync

- Teamed up with 5 people and focused on front-end design, hardware implementation, and server maintainability
- Engineered a data acquisition system by integrating Raspberry Pi, NPK soil sensor, Arduino, and MariaDB
- Embedded an AI model with 96% accuracy in the application to detect plant diseases using TensorFlow Lite
- Operated an AWS EC2 instance with Windows Server 2022 to host the Node.js back-end
- Automated server deployment with CI/CD using GitHub Actions
- Employed push notifications through OneSignal API

PlatePal. Recipe Finder Application

github.com/ZouheirN/PlatePal

- Applied clean architecture and BLoC to ensure maintainable and scalable code
- Integrated the Spoonacular API and cached API requests for improved performance while offline
- Used Shorebird for remote code push and updates
- Added customizable theme settings with color selection and dark mode

To-Do List Application. Flutter Mobile Application Focusing on Security

github.com/ZouheirN/Flutter_To-Do_App

- Conducted a 3-month research about the best security practices and Flutter application hacking
- Implemented hashing with salt, code obfuscation, biometric and 2-factor authentication, and secure JWT storage
- Reverse engineered the final application using jadx to make sure code obfuscation is working

Subtitle Downloader. Flutter Application with BLoC State Management

github.com/ZouheirN/Subtitle-Downloader

- Developed a movie and TV show subtitle downloader using Subdl API
- Integrated Firebase features such as authentication and OAuth, email verification, and password reset
- Stored user information in Firestore to enable synchronization of downloaded subtitles across devices
- Introduced a file manager feature to choose installed movies or shows and download appropriate subtitles

SKILLS

Languages: Arabic (Native), English (Fluent), Norwegian - Bokmål (Beginner)

Software Skills: Python, Flutter, Dart, SQL, NoSQL, MariaDB, Git, Windows, Linux

Hardware Skills: Arduino, Raspberry Pi