



EMIR PETEK

ANDROID DEVELOPER

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Istanbul, Turkey

ABOUT ME

I am a Computer Engineer specializing in **modern mobile technologies**, proficient in both the user-side and server infrastructure of the system. Using **Kotlin** and **Compose Multiplatform**, I have developed scalable, high-performance mobile applications for Android and iOS platforms that adhere to modern UI/UX principles. In addition, I used **XML** based UI/UX design. I have furthered my mobile expertise by developing scalable services on the backend using **.NET (MVC)**, **Entity Framework Core**, and **Docker**, with security optimized using **JWT** and **RBAC**. I demonstrated my interest and application skills in artificial intelligence technologies integrating machine learning models such as CatBoost/Random Forest into real-time systems in my graduation project. While producing practical and sustainable solutions to complex engineering problems, I have continuously improved my technological skills through a discipline of ongoing learning.

LinkedIn: <https://www.linkedin.com/in/emir-petek-6889411b5/>

GitHub: <https://github.com/EmirPetek>

Personal Website: <https://www.emirpetek.com>

PROFESSIONAL EXPERIENCE

Mobile Application Developer

Xenovo Management Consulting

Mar 2025- Present

Istanbul, Turkey

I developed a cross-platform mobile application using Kotlin with Compose Multiplatform, targeting both Android and iOS platforms. The application followed the **MVVM** architecture and made use of modern technologies such as **Ktor** for networking, **Koin** for dependency injection, **Jetpack Compose** for UI development, **Coroutines** and **Flow** for asynchronous and reactive programming, **DataStore** for local storage, and **Coil** for image loading.

Throughout the project, I implemented key functionalities such as **PDF viewing** and downloading that work seamlessly across both platforms, and **file upload** capabilities supporting images and PDF files with appropriate permission handling. I also developed reusable and platform-optimized UI components to maintain consistency and reduce redundancy in the codebase. Additionally, I structured navigation and managed application state effectively across different modules to ensure a smooth and maintainable architecture.

To manage internal operational processes, I developed **end-to-end web-based management systems**, designing the backend infrastructure with **.NET 9 and MVC architecture** and managing the **Entity Framework Core** and **MySQL database** layers. I modernized these projects with a **Docker container** structure to optimize installation and deployment processes. Additionally, I designed and implemented high-performance **API** services independent of mobile processes, featuring **JWT-based authorization**, **Role-Based Access Control (RBAC)**, **DTO mapping** structures, and **third-party Hostify API integration**.

Mobile Application Developer

Bandırma Onyedi Eylül University

October 2024 – June 2025

Bandırma, Balıkesir

I worked as a mobile application developer in the digital transformation office of Bandırma Onyedi Eylül University. I cannot give detailed information about the projects developed due to confidentiality. I completed the projects using my knowledge on topics such as **Kotlin**, **Restful**, **Coroutines**, **MVVM**, **OOP**.

Software Developer**Webito Software Informatics Industry Trade Ltd.****July 2024 –Aug 2024**

Istanbul, Turkey

- I successfully completed my Summer Internship II (2024) at this company, where I actively utilized HTML, CSS, PHP, and Kotlin to create Android apps. During this period, I developed a second-hand shopping website leveraging HTML, CSS, and PHP. Additionally, I built an Android application with WebView integration, enhancing the user experience through seamless web content display.

Android Developer**Sporyap(Startup)****Mar 2024 – July 2024**

Istanbul, Turkey (Remote)

- In this exciting startup project covering 81 different sports branches in the sport industry. I played a developer role in the development of the **Android Application**. In the tasks I have undertaken so far, I have developed User-friendly design, integrated RESTful APIs and optimized Android app performance. I used these technologies during my work: **Kotlin, MVVM, Coroutines, OOP, API, Android Design.**

Software Developer**Webito Software Informatics Industry Trade Ltd.****June 2023 - Sep 2023**

Istanbul,Turkey

- I successfully completed my Summer Internship I (2023) at this company, during which I gained hands-on experience in software development, web development, and design. Following the internship, I continued contributing to various projects until the commencement of my academic term. My work primarily involved utilizing technologies such as HTML, CSS, PHP, and Kotlin. Notably, I developed a comprehensive tennis reservation website, including its backend architecture. Also I created many Android application with WebView.

EDUCATION**Computer Science and Engineering****Universidade Beira Interior, Covilhã, Portugal****Sep 2023-Feb 2024**

- Participated in the Erasmus+ program at Universidad de Beira Interior, focusing on Computer Science and Engineering.

Computer Engineering(English)**Bandirma Onyedi Eylul University, Bandirma, Balikesir****Aug 2020 – June-2025**

- I graduated in 2025 from Bandirma Onyedi Eylül University with a Bachelor's degree in Computer Engineering (English program), achieving a GPA of 3.12 out of 4.00.

SKILLS AND TECHNOLOGIES

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|-------------------------|---------------------------------|-----------------------------|
| • Kotlin | • Deployment & Publishing | • Viewbinding / Databinding |
| • Compose Multiplatform | • Firebase / Google Admob | • .NET MVC |
| • Jetpack Compose & XML | • Git/GitHub | • Entity Framework Core |
| • Coroutines & Flow | • Android Lifecycle & SDK | • Docker |
| • MVVM / Clean Arch. | • RESTful API / Ktor / Retrofit | • OOP |
| • Koin & Hilt (DI) | • Room / MySQL / DataStore | • JWT & RBAC Security |

TECHNICAL PROJECTS

- **Guest24 Employee Task Management:** I developed this project for **Xenovo** for the **Guest24 employee-service panel** to manage property rental processes and operational efficiency. In addition to property management, I designed an end-to-end workflow that allows for **synchronisation of reservation data**, recording of technical or **operational issues** arising from reservations, and **handover of these issues** among employees. I also created a comprehensive **shift scheduling** module to manage employee working hours and task assignments, and enabled each user to access data specific to their authorization level using a **role-based authorization** system. I retrieved reservation and property data from the **Hostify PMS API (Property Management System)**, thus utilizing **third-party integration**.

In the technical infrastructure, I managed backend and frontend integration using the **C# .NET MVC architecture**. I implemented **Hostify API integration** to retrieve and synchronize reservation data as background service. In the database layer, I designed performance-oriented relational data models using **Entity Framework Core** and **MySQL**. I maximized system security with **JWT-based authentication** and **RBAC structures**, and modernized deployment processes by **Dockerizing** the project. In data transfer processes, I created a clean and sustainable architecture by using **DTO mapping structures**.

- **Blue Palm Mobile:** I develop this project for **Xenovo**. In line with Blue Palm's agreements with investors and shareholders, I developed a role-based mobile investment platform that digitizes stock buying and selling transactions. This application, which allows investors and authorized users to access different transaction permissions and dedicated screens according to their roles, was built on a single codebase using Compose Multiplatform for Android and iOS platforms. By modernizing institutional investment processes with a user-friendly interface, I provided an end-to-end solution where investors can track their assets transparently and securely.

In designing the application's technical architecture, I configured **dependency management (DI) with Koin** to ensure a flexible and modular structure. I implemented **API integrations** using the **Ktor** client at the network layer and included the Darwin engine to optimize network traffic on the iOS side. I utilized the **DataStore Preferences** layer to securely store user sessions and in-app preferences. To provide documentation for investor-specific digital certificates, I established a PDF viewing system via **Bouquet** and integrated the **Coil 3 library** for **asynchronous image uploading**. To maintain the operational health of the application and continue bug tracking, I successfully integrated **Firebase Crashlytics, Analytics, and Performance Monitoring** services. I also deploy this project on both Android and iOS.

Google Play Link: <https://play.google.com/store/apps/details?id=org.bluepalm.bluepalm>

App Store Link: <https://apps.apple.com/us/app/blue-palm/id6752565314>

- **Parq – Save Parking Space:** Parq is a modern Android application I developed and published on Google Play, designed to help users easily remember where they parked their cars. Built with Jetpack Compose, MVVM, Room DB, DataStore, and Hilt DI, it offers features such as saving vehicle location, adding photos and notes, viewing parking history, and navigation guidance. The app includes Ktor-based backend communication, supports 7 languages, integrates Firebase Analytics & Crashlytics for performance and error tracking, and leverages AdMob for a sustainable monetization model.

Here is app link from Google Play: <https://play.google.com/store/apps/details?id=com.parq.parq>

- **Indoor Positioning and Crowd Estimation System:** This application is my **graduation project**. Designed and implemented an Android-based system for real-time indoor localization and crowd size prediction using WiFi RSSI signals and smartphone sensors (accelerometer, gyroscope). Utilized ERLAK and Weighted Least Squares (WLS) algorithms for accurate positioning without prior calibration. Applied Random Forest and CatBoost machine learning regression models to estimate the number of people in the environment, achieving up to 93% R² accuracy. The mobile application was developed using Kotlin and MVVM architecture, with a focus on real-time performance and system extensibility.

- **AstroMatch:** The application is essentially a social media application. The application includes features such as person matching, messaging, post sharing, profile editing, and AI-supported person horoscope compatibility analysis. I used these technologies in this app: MVVM, ViewBinding, DataBinding, Flow, Android components, RecyclerView, Multiple language support, Retrofit, Firebase(Realtime DB, Firestore, Storage, Authentication), AI Support, Admob, Navigation Component, Permissions, Intent, Webview, SharedPreferences, OnBoarding, ViewPager2, Splash Screen, GitHub

The Github link for this project: <https://github.com/EmirPetek/AstroMatch>

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- **WalletApp:** I developed this application to gain hands-on experience with backend technologies. The application enables users to register, create wallets, manage cards, transfer funds, make payments, and perform deposit/withdrawal transactions. For the backend, I utilized Java Spring Boot, while the Android application was built using Kotlin. MySQL served as the database solution on the backend, and SharedPreferences were used for storing small amounts of data on the Android side. The Android application was designed following the MVVM architecture and included features such as API integration with Retrofit, Navigation, XML-based UI design, ViewBinding, and core Android components.

GitHub link for Android: https://github.com/EmirPetek/walletApp_Android

GitHub link for Backend: <https://github.com/EmirPetek/wallet-api>

The video from application: <https://drive.google.com/file/d/1d3aXlsmkCrstPi9QrEKPkYYXfNDz-Dn-/view?usp=sharing>

REFERENCE

- **Ali Emin Çomoğlu**(Software Team Lead at Xenovo Digital Agency). **Phone:** +90 553 720 96 99 **Mail:** emin.comoglu96@gmail.com
- **Onur Gedik**(Owner of the **Webito Software Informatics Industry Trade Ltd.**). **Phone:** +90 539 703 09 56 **Mail:** info@webito.com.tr