# VAHAN DAĞ

## Software Engineer

Highly skilled Software Developer with over 4 years of individual experience in developing innovative web and mobile applications. Expertise in **Flutter, Swift, Python, Solidity, C# and blockchain technologies**, with a strong focus on building **mobile applications, smart contracts, and backend development**.

**+905441310134**          **vahangs@gmail.com**          **Projects**          **Pendik, Istanbul**

## Experience

**Flutter Developer**
Futuretea LTD
August 2024 - Jan 2025
London, UK· Remote

Contributing to the development of cross-platform mobile applications using Flutter, focusing on creating scalable and user-friendly interfaces.
**Key Responsibilities:**
- Collaborating with designers and backend teams to deliver seamless, responsive mobile applications.
- Implementing state management solutions using **Provider/BLoC** to ensure clean and maintainable code.
- Integrating **third-party APIs and Firebase** services for real-time data synchronization and user authentication.
- Optimizing app performance, ensuring smooth user experiences on both **Android and iOS** platforms.
- Actively participating in code reviews, feature planning, and the continuous improvement of mobile development processes.

**Full Stack Developer**
Muamma Labs
Dec 2022 - Present
Istanbul, Turkey

Founded, Developed and launched the Muamma platform, a cross-platform app using Flutter with blockchain integration for secure transactions and games.
**Significant Contribution:**
- Integrated **Firebase** for authentication and backend services, streamlining development.
- Implemented **Muamma Token** (MMA) on the **Polygon network** with secure, cost-effective **smart contracts**.
- Developed **Celery-Flask** architecture on **GCE** for blockchain tasks and **Django** for web components.
- Enabled multi-language localization in six languages for mobile accessibility.
**Key Aspects of Role:**
- Applied the **BLoC** pattern for scalable state management in **Flutter**.
- **Integrated AI** to generate 25,000+ quiz questions, boosting engagement in Muamma Games.
- Built a secure crypto wallet with **BIP32/BIP39** standards and mobile keystore/keychain storage.

## Education

İnönü University
2020 - 2025
Malatya, Turkey

## Languages

🇹🇷 Turkish (Native)

🇬🇧 English(B-1)

## Technical Skills:

- **Programming Languages:** Python, Dart, Solidity, Swift
- **Frameworks & Libraries:** Flutter, Django, Selenium, Flask
- **Blockchain Technologies:** Smart Contracts, Decentralized Applications (DApps), NFT Development
- **Tools & Platforms:** Firebase, Git, GitHub, Jira
- **Web Development:** HTML, CSS, JavaScript
- **Databases:** PostgreSQL, MongoDB
- **Cloud Services:** Google Cloud Platform, AWS
- **Mobile App Development:** Flutter, Swift
- **Backend Development:** ASP.NET Nodejs, Django, FastAPI

## Links

Website

 GitHub

Linkedin

Medium

# Major Projects

### Denizbank Clone - Full-Stack Banking Application
- Developed a banking application with ASP.NET Core 8.0, Entity Framework Core, and PostgreSQL backend
- Built responsive mobile UI with Flutter and BLoC pattern for state management
- Implemented secure user authentication with JWT tokens and role-based access control
- Created core banking features: account management, card operations, money transfers, and transaction history

**Technologies: C#, ASP.NET Core, Entity Framework Core, PostgreSQL, Flutter, Dart, BLoC Pattern**

### Desponia.com - Developer Community Forum Platform
- Developed a comprehensive forum platform tailored for software developers using Django framework
- Implemented robust authentication system with user profiles and hierarchical ranking system
- Created interactive content features including post/comment functionality with like/dislike capabilities
- Built notification system to enhance user engagement and platform activity tracking
- Designed responsive frontend using HTML, CSS, JavaScript and Bootstrap for optimal user experience

**Technologies: Python, Django, HTML, CSS, JavaScript, Bootstrap, SQLite/PostgreSQL**

### Kage - Interactive Card-Based Storytelling Mobile Game
- Developed and published a card-based narrative game on the App Store with swipe mechanics similar to Reigns
- Implemented a comprehensive achievement system to increase player engagement and replayability
- Integrated haptic feedback technology to enhance user experience with tactile responses
- Generated story content using Claude Sonnet 3.5 AI and created visual assets with Stability AI's Dream Studio
- Built with Swift and UIKit following iOS design guidelines and best practices for optimal performance

**Technologies: Swift, UIKit, Core Haptics, App Store Connect, Claude Sonnet 3.5 AI, Stability AI Dream Studio**

### Kan Lazım - Blood Donation Connection Mobile App
- Developed a volunteer-based mobile application connecting blood donors with those in need
- Built cross-platform solution using Flutter framework for both Android and iOS devices
- Implemented Firebase Authentication for secure user login and account management
- Utilized Firebase Realtime Database and Cloud Firestore for efficient data storage and retrieval
- Created intuitive user interface for matching blood donors with recipients based on blood type and location

**Technologies: Flutter, Dart, Firebase Authentication, Firebase Realtime Database, Cloud Firestore**

### Rohan - AI-Powered English Learning Platform
- Developing a cross-platform English learning application using Flutter for desktop and mobile devices
- Implementing conversational AI features that allow users to practice English through interactive dialogues
- Creating AI-generated personalized reading and listening materials to enhance language acquisition
- Building backend services with FastAPI to integrate OpenAI Whisper for speech recognition, XTTS for text-to-speech, and Gemini API for content generation
- Designing secure authentication system and subscription model for premium content access
- Utilizing AWS S3 for efficient storage and delivery of audio and text-based learning resources

**Technologies: Flutter, Dart, Python, FastAPI, OpenAI Whisper, XTTS, Gemini API, AWS S3**