




Musa SAHIN

SENIOR SOFTWARE ENGINEER

 sahinmusa@gmail.com  +90 505 383 61 43  Istanbul, Turkiye

 LinkedIn  GitHub  StackOverflow  Youtube

PROFESSIONAL SUMMARY

Software Engineer with 9 years of experience. Primary focus on **Flutter (7 years)** and **NestJS (2 years)**, with additional practical experience in native **iOS (Swift)**, **Android (Kotlin)**, and **React Native**. Experienced in building scalable architectures, implementing mobile security standards, and establishing automated testing workflows through **TDD** & Clean Architecture. Specialized in **FinTech**, **Geomatics**, **E-commerce**, **Education**, and **Gaming** domains. Conducted thesis research on **NLP** (Natural Language Processing) and actively leverages specific **AI tools** to accelerate development life-cycles. Practices Test-Driven Development (TDD) and follows clean code principles to maintain high software quality.

WORK EXPERIENCE

Senior Mobile Developer | Orion Innovation

Oct 2024 - Present

- Developing **HunStand**, a cross-platform (Mobile & Web) application for Hunting and Land Management using Flutter.
- Utilizing **Generative AI tools** to optimize code quality, automate refactoring, and accelerate feature implementation.
- Updated the internal **MapSDK** to improve geospatial rendering performance across multiple products.
- Implemented **Test-Driven Development (TDD)** workflows, addressing technical debt in legacy modules.
- Conducting code reviews and mentoring team members on modular architecture and state management.

Software Developer | Engineerica Inc (Remote)

Jul 2023 - Oct 2025

- Developed and maintained **AccuBus**, a mobile application for monitoring state school bus logistics.
- Integrated **AI-assisted workflows** in the development process to enhance problem-solving speed and efficient code documentation.
- Rewrote the **iAccu** attendance mobile and kiosk application in Flutter for cross-platform support.
- Contributed to the **Accudemia** academic center management system using native Swift and Kotlin.
- Developed **Accu-Lite**, a lightweight version of the attendance tracking system.
- Built **AccuClass**, a class management and scheduling application.
- Implemented **Conference Planner** for event scheduling and resource management.

Software Developer & Product Manager | Optimus Bilişim

Jan 2024 - Aug 2024

- Architected white-label stock trading applications and SDKs used by multiple financial institutions (e.g., **Meksa Mobile**).
- Refactored legacy codebases to improve architectural modularity and maintainability.
- Implemented security measures to meet penetration testing requirements for financial software.
- Managed the complete application rewrite to resolve performance issues.

Software Developer & Team Lead | Innovance / Oyak Yatırım

Mar 2023 - Jan 2024

- Led the mobile development team for the **Oyak Finance Trader** application.
- Established architectural standards and managed the release pipeline for the Flutter codebase.

Full Stack Software Developer | Maximize Capital / Nakit Yok

Mar 2023 - Mar 2024

- Developed **NOSH**, a food ordering and payment mobile application using Flutter.
- Built the backend infrastructure using **NestJS** and **PostgreSQL**.

Software Developer | Aymar Tech

Jul 2022 - Mar 2023

- Led the implementation of "Untangible", an NFT marketplace and Web3-integrated game platform using **React Native** and **Flutter**.
- Integrated Web3 wallets and smart contract interactions within both React Native and Flutter environments.

Flutter Engineer | United Software / Wio Bank (Remote)

Apr 2022 - Feb 2023

- Contributed to **Wio Business**, a digital banking application, focusing on API integration and performance.
- Collaborated with distributed teams to ensure banking compliance and security.

Principal Mobile Specialist | Etiya Information Technologies

Feb 2022 - Apr 2022

- Led development of the **Trumore Super App** (Official App for **Togg Car**) using Flutter.
- Implemented features to meet automotive industry performance standards.

Software Developer & Team Lead | DOP Digital Operations Services

Oct 2021 - Feb 2022

- Led mobile development team for **Siparişim** and **Restoran Isım Mobil** applications.
- Implemented micro-frontend architecture to improve scalability across mobile platforms.
- Mentored junior developers on Flutter best practices and architectural patterns.
- Contributed to backend development using Python (FastAPI) and NestJS.

Software Developer | Internative Software

Mar 2021 - Oct 2021

- Developed **All4Baby**, a parents and baby assistant application using Flutter.
- Built **Sodio**, a social radio application using custom Flutter UI components.
- Implemented interactive mobile UI designs focused on user engagement.

Software Developer | S'aide Financial Technologies

Apr 2020 - Feb 2021

- Developed **S'aide**, a student assistant and payment application using Flutter.
- Integrated payment gateway APIs for secure transaction processing.
- Implemented security measures to pass penetration testing requirements for financial applications.
- Built the initial backend infrastructure using NestJS and MongoDB.

Full Stack Software Developer | Freelance

Jun 2017 - Apr 2020

- Developed web and mobile applications for clients using Ionic, React, React Native, and Flutter.
- Delivered custom solutions for small to mid-sized projects across various industries.

PERSONAL PROJECTS

Flash Game Engine | Open Source

- Created a lightweight **2.5D game engine** for Flutter (written in **C++ & Dart**) featuring declarative widgets, physics simulation, and spatial audio.
- Successfully used to develop **10+ high-quality demo games** across mobile platforms.
- Designed a custom entity-component system (ECS) optimized for Dart and Flutter's rendering pipeline.

Guardrail | AI Code Intelligence & Security Platform

- Architected a **language-agnostic, privacy-first AI platform** that runs 100% locally, eliminating data leakage risks for enterprise codebases (**pilot-tested in live projects at Orion**).
- Engineered a **PR Intelligence** module using **Graph DB (KuzuDB) & Vector DB (ChromaDB)** to provide context-aware code reviews and automated impact analysis.
- Integrated **Local LLMs (Ollama)** with **Adaptive RAG pipelines** to resolve context window limitations and enable continuous system learning from codebase evolution.

- Tech Stack:** Python, FastAPI, React, KuzuDB, ChromaDB, Ollama.

TECHNICAL SKILLS

MOBILE DEVELOPMENT

Flutter (7 years)

Dart

iOS (Swift)

Android (Kotlin)

React Native

BLoC / Cubit

BACKEND & API

NestJS

NodeJS

Python

TypeScript

RestAPI

GraphQL

gRPC

WebSockets

DATABASE & DEVOPS

PostgreSQL

MongoDB

Redis

Firebase

TypeORM

CI/CD (Gitlab, Github Actions)

METHODOLOGIES & CONCEPTS

TDD

Clean Architecture

SOLID

Design Patterns

Agile / Scrum

OOP

Micro-Frontend

EDUCATION

BS, Information Systems and Technologies

Yeditepe University - Istanbul

2021

BS, Management Information Systems

Anadolu University

2020

BS, Physics (Double Major)

Yeditepe University

2021

MEd, Science Teacher Education

Marmara University

2020

Thesis: Utilizing NLP (Natural Language Processing) for Assessing Open-Ended Examinations

B.E. in Chemistry Engineering

Marmara University

2015

BSc, Chemistry

Marmara University

LANGUAGES

Turkish: Native

English: Professional Proficiency