KEREM TÜRKÖZÜ

Software Engineer
Backend • Full Stack • AI/ML • Cloud

Summary

Software Engineer with 2+ years of professional experience building and shipping production-ready applications across mobile, web, and AI-driven systems. Delivered 25+ applications end-to-end, with 15 actively maintained live products generating $500 MRR, demonstrating strong ownership from architecture design to production deployment.

Hands-on experience in backend development using Python (Flask), PHP, Spring Boot, Node.js, and Express, as well as frontend development with React, Next.js, and Angular. Actively involved in building micro-SaaS products, integrating databases such as MongoDB, Firebase, and MSSQL, and deploying services using platforms like Vercel.

Experienced in applied machine learning workflows, including model training with PyTorch and Pandas, and integrating data-driven components into web applications. Strong engineering foundation supported by an MSc in Software Engineering, with a focus on scalable systems, clean architecture, security, and maintainable codebases.

Experiences

Software Engineer

IGENAS

December 2025 - Current

- Developed web-based applications using PHP, React, Spring Boot, Angular, Python delivered machine learning–based training projects using PyTorch and Pandas.
- Contributed to backend development, data processing, and API integrations.
- Led a web project through development and production deployment.
- Managed production releases, deployments, and environment configurations.

Freelance Software Engineer

November 2023 - Current

- Designed, developed, and delivered 25+ production-ready applications, with 15 actively maintained live systems.
- Owned application lifecycles including feature development, performance optimization, security updates, and long-term maintenance.
- Built scalable and maintainable application architectures using modular design principles and clean code practices.
- Integrated third-party services and external APIs, managing data flow, persistence, and synchronization.
- Developing and shipping micro-SaaS products using Angular, React, Next.js, Node.js, Express, MongoDB, Firebase, and Vercel.
- Involved in full product lifecycle including backend APIs, frontend interfaces, deployment, and iteration.

Full-Stack Developer Intern

Altay Information Technologies Defence Industrial and Trade inc.

July 2024 - August 2024

- Developed frontend features for a stock tracking application using Angular and TypeScript.
- Implemented backend integrations using ASP.NET Core and Entity Framework Core.
- Built JWT-based authentication and authorization mechanisms.
- Managed data access with MSSQL using Dependency Injection and DbContext.
- Performed API testing with Postman and Swagger and contributed to technical documentation.

Contact

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Languages

Swift, Python, Javascript, C++, C#, Java

Frameworks

React, Next.js, React Native, Flutter, SwiftUI, UIKit, Angular, UIKit, .Net Core

DevOps, Tools & Deployment

URLSession, Git, CI/CD, Vercel, Xcode, Postman, Swagger, Cursor

Database & Storage

Firebase, MongoDB, MSSQL, Core Data, CloudKit, MySQL

Architectures & Design

MVVM, VIPER, Clean Architecture, Dependency Injection, Unit Testing, CI/CD

Practices

Agile/SCRUM, Jira, Trello, Technical Documentation

Backend & API's

Node.js, Express, Flask, RESTful APIs, JWT Authentication, Spring Boot

Projects

*Selected projects are listed below. Additional 30+ projects and case studies are available on my portfolio website.

Electric Vehicle Charging Station Finder

Application to find EV charging stations based on location and availability, with route planning.
Technologies / Features: SwiftUI, SwiftData, Combine, OpenChargeMap API, CoreLocation, RevenueCat.

AI-Powered Therapy Assistant

Provides AI-assisted conversations and mental health tools.
Technologies / Features: SwiftUI, SwiftData, OpenAI API, RESTful, Vercel, URLSession, Combine.

Bluetooth Device Tracker

Scans, lists, and notifies users of nearby Bluetooth devices.
Technologies / Features: Swift, SwiftUI, CoreLocation, MapKit, CloudKit, StoreKit, CoreData, Combine.

Image Converter – PDF & JPG/HEIC/PNG

Image format converter supporting multiple file types and batch processing.
Technologies / Features: SwiftUI, CoreData, Combine, FileManager, CoreImage, RevenueCat.

Parked Here – Car Locator

Application for vehicle parking management and easy car location tracking.
Technologies / Features: Swift, SwiftUI, CoreLocation, MapKit, CloudKit, StoreKit, CoreData.

MindSpark – Idea Notes

 Fast and efficient idea-capturing tool for entrepreneurs, developers, and indie makers.
Technologies / Features: SwiftUI, CloudKit, StoreKit, UserDefaults.

Clipboard App (macOS)

macOS app that stores clipboard history and allows easy access.
Technologies / Features: AppKit, Swift, CoreData.

EchoNote – Voice Notes App

App allowing users to record, save, and manage voice notes.
Technologies / Features: UIKit, Swift, AVFoundation, CoreData, CloudKit.

Fuel Tracker – MIS Capstone Project

Academic project for tracking vehicle fuel consumption and expenses.
Technologies / Features: Swift, SwiftUI, CoreData, CloudKit, Combine.

Carbon Footprint Game

Story-based expense game to raise awareness about sustainability (developed for WWDC25 Swift Student Challenge).
Technologies / Features: Swift, SwiftUI, Swift Playgrounds, UIKit.

TravelBook

A location-based iOS app that allows users to save and view places they have visited. Includes map integration and data persistence.
Technologies / Features: Swift, UIKit, MapKit, Core Data

AI-Powered ATS Resume Analyzer – Web App

- Built a system that extracts role-specific requirements from job postings.
- Generated personalized interview questions and model answers using AI.
- Created structured learning roadmaps based on skill gaps.
- Designed scalable backend architecture and deployed the platform to production.

Technologies: React, Next.js, Node.js, Express, Firebase, OpenAI API, JWT, Vercel

Machine Learning Projects

Developed and trained machine learning models on various datasets.
Technologies / Features: Python, scikit-learn, TensorFlow, Pandas, Matplotlib.

Regression Analysis Library

Python-based data analysis and regression models library with visualization tools.
Technologies / Features: Python, NumPy, Pandas, Matplotlib, Jupyter Notebook

Face Recognition System

Application for face recognition and verification from photos and camera input.
Technologies / Features: Python, OpenCV, Dlib, Machine Learning.

AltayStock – Inventory Management System

Web-based stock management application developed for Altay Defense Industry. Features include product addition, updates, and reporting.
Technologies / Features: Angular, JavaScript, ASP.Net Core, TypeScript, RESTful API, JWT.

Jarvis – Personal Assistant

Voice-controlled assistant app with modules for weather, reminders, and note-taking.
Technologies / Features: Python, SpeechRecognition, OpenAI API, Flask, RESTful API.

HashPassword – Password Security Tool

Library for securely hashing and verifying passwords.
Technologies / Features: Python, bcrypt, hashlib.

ChatBot Web Application

AI-powered chatbot web app similar to ChatGPT. Provides responses to user queries and stores conversation history.
Technologies / Features: React, Spring Boot, Firebase, RESTful API, Python.

Radar Signal Simulation and Analysis

Python-based tool for radar signal generation and analysis. Supports CW, pulse, and FMCW signals. Developed dynamic user interfaces to enhance user experience.
Technologies / Features: Signal generation, AWGN noise addition, FFT and spectrum analysis, SNR calculation, peak detection, time/frequency domain visualization.

Sensor Fusion Library

C++17 library for multi-sensor data fusion in embedded systems.
Technologies / Features: GPS, IMU, and temperature sensor integration; multi-threading (producer/consumer model), 2D complementary filter, CMake support, real-time demo.

Education

Hacettepe University | 2025 – 2027

Master of Science in Software Engineering

- Focus on advanced software development, system analysis, and modern software architectures
- Academic and practical training in software quality, testing, and reliable software systems
- Ongoing development and publishing of iOS and Web applications as part of applied coursework

Ankara Medipol University | 2021 – 2025

Bachelor of Science in Management Information Systems

- Strong foundation in software development, data structures, and database-driven systems
- Experience with full-stack development concepts and applied software projects
- Capstone and individual projects focused on iOS and Web application development and MVP delivery

Ataturk University | 2021 – 2023

Associate Degree in Computer Programming

- Solid background in object-oriented programming and core software development concepts

Cankaya University | 2020 – 2021

Bachelor of Science in Mathematics (Transferred)

- Completed English preparatory program and foundational mathematics coursework

Certifications

- Programming Fundamentals in Swift @Meta
- User Interface Design and Prototyping @Microsoft
- iOS App Store & In-App Purchases @LearnQuest
- App Design and Development @University of Toronto
- Introduction to Mobile App Development @IBM
- Foundations of Swift and SwiftUI @Packt
- Apple Search Ads @Apple
- iOS Programming with Swift @Turkcell
- Programming with Javascript @Meta
- Version Control @Meta
- Tables, Data & Networking in iOS @LearnQuest

Communities

IEEE Computer Society Medipol University
Google Developers Club Medipol University
IEEE Computer Society Cankaya University
Google Developers Club Hacettepe University

Languages

Turkish
Native

English
B2 Level

German
A2 Level

Community & Competitions

Medium - Technical Writer

I write technical articles on iOS development and software engineering, sharing insights and best practices with the developer community with 100+ articles and over 20K readers. I contribute to the @LevelUpCoding publication, helping developers enhance their skills and stay updated with the latest trends.

Cursor Hackathon Turkey 2025

Developed an AI-powered language learning app that provided real-time feedback during speaking practice, offering users an "AI speaking coach" experience.

WWDC – Swift Student Challenge 2025

Participated in WWDC Swift Student Challenge with a story-driven spending game that raises awareness about carbon footprint. Designed and developed the project using SwiftUI and Swift Playgrounds, creating an interactive experience to educate users on sustainable spending.