

# Bartu ERDEM

Software Engineering Graduate | Junior Software Engineer

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## SUMMARY

Software Engineering graduate focused on mobile applications, AI/RAG systems, and developer tooling. Built and evaluated projects across RAG, mobile apps, churn prediction, and API tooling using Flutter, Swift, Python, FastAPI, Firebase, OOP, unit testing, and SDLC practices.

## TECHNICAL SKILLS

**Languages:** Python, Swift, Dart, TypeScript, JavaScript, SQL, Java, C/C++

**Mobile:** Flutter, SwiftUI, UIKit, Firebase, Google Maps APIs

**AI / ML:** RAG, LLMs, Sentence-BERT, FAISS, scikit-learn, XGBoost, LightGBM, OpenCV, YOLO, Pandas, NumPy

**Backend & Tools:** FastAPI, Flask, Streamlit, React, REST APIs, OpenAPI, Git, GitHub Actions, Vercel

## EXPERIENCE

### Mobile Application Developer Intern

Vestel

Jul 2025 - Aug 2025

İzmir, Türkiye

- Developed and optimized mobile application features using Flutter and Swift in an Agile engineering team.
- Integrated RESTful API services for application data synchronization and feature workflows.
- Collaborated through code review, testing, debugging, and technical communication to improve app quality.

## SELECTED PROJECTS

### ErrorAtlas

<https://github.com/bvrtu/erroratlas>

Engineered an error-contract CLI that detects source/catalog/OpenAPI drift and exports Markdown, JSON, and SARIF reports.

### QuakeConnect

<https://github.com/bvrtu/QuakeConnect>

Developed a Flutter/Firebase earthquake safety app with maps, location services, push notifications, and emergency workflows.

### TurkiyeGPT

<https://github.com/bvrtu/AkbankGenAI-TurkiyeGPT>

Implemented a tourism RAG chatbot for the Akbank GenAI Bootcamp with Python, LLM technologies, and grounded retrieval.

### IUE Course Intelligence - RAG System

<https://github.com/bvrtu/iue-course-rag>

Built a bilingual course intelligence system with Python, Sentence-BERT, FAISS, and Ollama; evaluated retrieval with 60 questions.

### E-commerce Churn Prediction

<https://github.com/bvrtu/ecommerce-churn-prediction>

Trained churn models with Python, XGBoost, LightGBM, and scikit-learn; achieved 83.87% ROC-AUC and shipped Streamlit/FastAPI interfaces.

### AIPHOTO

<https://github.com/bvrtu/AIPHOTO>

Created a Swift/UIKit iOS image-processing application during Vestel internship work.

## EDUCATION

### B.Sc. in Software Engineering

İzmir University of Economics • GPA: 3.10/4.0 • High Honour Student (2x) • Honour Student (2x)

2022 - 2026

## CERTIFICATIONS

Python for Data Science and AI • IBM • 2024

Prompting Essentials / Prompt Engineering • Google • 2024

Akbank Generative AI Bootcamp • Akbank • 2025

## LANGUAGES

English **Fluent** Turkish **Native**

German **Beginner**