KIMYA GHASEMLOU

Software Engineer

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EXPERIENCE

TMC Proje (Part-time) 2025–Present

Built SahaEtüt, an end-to-end field survey system for a DSİ project, covering Android data collection, synchronization, and server infrastructure.

- Developed an offline-first Android app using **Kotlin and Jetpack Compose** for field surveys with photos, notes, GPS tracking, and Excel export.
- Implemented background synchronization with **resumable uploads and checksum verification**, supporting intermittent connectivity and datasets up to 100 GB.
- Deployed a **Go ingestion server** on Windows with Caddy, TLS, device authentication, and local data archiving.

TechNarts (Part-time) 2022–2024

- Worked on **STARS**, writing region-based SQL aggregation queries, converting them to **Django ORM**, and optimizing database access to reduce excessive queries.
- Used the internal **Fayton** framework to build backend-defined views.
- Contributed to **TT Monitor (TART)** for Türk Telekom, primarily developing **React** frontend features, including authentication and permissions.

PROJECTS

İndi/Bindi Bus Ridership Tracker

- Built an offline-first Android app using **React Native, Expo, and TypeScript** for Dicle University's Transportation Engineering Research Group.
- Implemented session recovery, GPS tracking, and tap debouncing; recorded **390 sessions and 16,791 boardings**. Processed 544 field CSVs (730K rows) and a separate 303K-row card-tap dataset using Python.

Go Matchmaking Queue Service

- Built a concurrent matchmaking service in **Go**, using a dedicated goroutine to manage queue state and pair players.
- Used **Redis Pub/Sub** for cross-instance communication and **WebSockets** for real-time client updates; containerized with **Docker**.

UThere (Senior Project)

- Developed a real-time attention analysis platform using **React, Django, and Agora SDK**, integrating video communication with machine-learning-based attention detection.
- Trained a computer vision model on **5,806 labeled video clips**, achieving **89% accuracy**, and deployed the backend on Google Cloud with PostgreSQL.

SUMMARY

Software engineer with experience building production telecom applications and end-to-end mobile and backend systems. Worked across Android development, database optimization, cloud deployment, and AI-assisted software development.

EDUCATION

Bilkent University

B.S. in Computer Engineering 2026

SKILLS

Programming Languages

Go | Java | Python | TypeScript | JavaScript | Kotlin | SQL | C++

Frameworks & APIs

React | React Native | Django | FastAPI | Node.js | Expo | REST APIs | WebSockets

AI Tools

Claude Code | OpenAI Codex | OpenCode | Anthropic API

Infrastructure & DevOps

Git | GitHub Actions | CI/CD | Docker | Redis | Google Cloud (GCP) | PostgreSQL | MongoDB

LANGUAGES

English | Turkish | Persian | Azeri

OTHER ACTIVITIES

Private Tutor — Python & Digital Design

Tutored Bilkent University students in CS115 (Python) and CS223 (Digital Design).