# Ahmet Emir Arslan

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## Education

**Istanbul Technical University** — Istanbul, Turkey
*Bachelor of Computer Engineering* — *Sep 2022 – Jan 2027*

## Experience

**Software Engineering Intern** — Jun 2026 – Present
*Softtech (İş Bankası)* — *Istanbul, Turkey*
- Refactored a **Spring Boot microservice**, replacing in-memory business checks with database-level queries to improve performance.
- Implemented end-to-end CRUD functionality for a core module using **clean architecture** in an agile team.

**Backend Developer Intern** — Feb 2026 – Jul 2026
*DZD Technology* — *Istanbul, Turkey*
- Built backend services and APIs using **C#**, **Entity Framework**, and **SQL Server**.

**Undergraduate Researcher** — Apr 2026 – Present
*ITU Predictive Intelligence and Medical Imaging Laboratory* — *Istanbul, Turkey*
- Contributing to medical imaging research using **deep learning**.

**Co-founder** — Feb 2025 – Mar 2026
*Caliskan App – Social Pomodoro* — *Istanbul, Turkey*
- Co-built a social productivity app across backend, mobile, authentication, and DevOps in **TypeScript**.

## Projects

**AI Video Editor Agent** | *MLX Whisper, Gemini, Swift, AVFoundation* — Oct 2026
- Engineered an **agentic macOS video editor** where Gemini analyzes transcripts, **decides which edits to make**, and executes tools for cuts, captions, zooms, and overlays, with reviewable diffs and transactional undo/redo.

**AI Voice Calorie Tracker** | *Gemini, Python, NestJS, PostgreSQL, SwiftUI* — Oct 2026
- Built a voice-first iOS nutrition app with a **Gemini agent** that interprets Turkish requests, **selects data-retrieval and planning tools**, and proposes calorie-budget adjustments, requiring user approval before changes.

**Trip Planner AI – Wingie Enuygun Hackathon** | *NestJS, MCP, React Native* — Oct 2025
- Built an AI trip planner in **24 hours**, integrating Enuygun MCP and a custom **MCP server** with a mobile app.

**Sisyphos** | *Unity, C#* — Jan 2026
- Published a mobile game on the **App Store** with custom gameplay systems.

## Achievements & Activities

**EPAM Systems AI Tech Bootcamp** – Selected participant; AI, cloud, and coding — Feb – Jun 2026

**National University Entrance Exam** – Ranked **334th out of 3 million** — Jul 2022

**Student Chapters** – ITU ACM and IEEE Computer Society — Sep 2022 – Present

**Consultancy** — Aug 2022 – May 2023
Provided voluntary guidance on university exam preparation and sports performance to multiple students.

## Technical Skills

**Languages:** Python, TypeScript, Swift, Java, C#, C/C++, JavaScript, SQL
**AI & Data:** Agentic workflows, LLM tool calling, MCP, Gemini API, Whisper, ETL, PostgreSQL, Supabase
**Frameworks & Tools:** NestJS, Spring Boot, SwiftUI, React/React Native, Next.js, Entity Framework, Docker, Git, FFmpeg, SQL Server, Google Cloud, Expo, Unity