

# Ahmet Abdullah Gültekin

## Computer Science Engineer · R&D & Software Architecture

ahmetabdullahgultekin@gmail.com İstanbul, Türkiye linkedin.com/in/ahmet-abdullah-gultekin  
github.com/ahmetabdullahgultekin ahmetabdullah.gultek.in

### SUMMARY

Software development, for me, is about looking past the code to the architecture, scalability, and operational impact of a system. I am a final-year Computer Engineering student at Marmara University and a Candidate Researcher at TÜBİTAK BİLGEM, with an Erasmus+ semester at IPCA (Braga, Portugal). My backend work leans on Java/Spring Boot, PostgreSQL for storage, Apache Solr for retrieval, Hazelcast for distributed caching, Fluent Bit → Loki + Grafana for observability, and Docker for delivery. I lead [FIVUCSAS] (<https://fivucas.com>) — a multi-tenant biometric authentication platform I publish under the [RollingCat Software] (<https://rollingcatsoftware.com>) name — and have shipped real-time 3D physics simulations and computer-vision pipelines in C++.

### EXPERIENCE

#### Candidate Researcher

Aug 2025 — present

TÜBİTAK BİLGEM · Gebze, Kocaeli, Türkiye

- Contribute to research-grade backend systems with a focus on performance, observability, and distributed-systems primitives.
- Work on Java + Spring Boot services backed by PostgreSQL, with Apache Solr for retrieval and Hazelcast for distributed caching.
- Operate the Fluent Bit → Loki log pipeline with Grafana dashboards, and produce technical documentation for internal teams.

Core Java Spring Boot PostgreSQL Apache Solr Hazelcast Fluent Bit Loki Grafana Docker

#### Software Developer

Aug 2024 — Oct 2024

4US GAME OYUN, YAZILIM VE PAZARLAMA A.Ş. · İstanbul, Türkiye

- Developed the desktop application "AI Project Analyzer" using Java, JavaFX, GCP, and Vertex AI.
- Collaborated with cross-functional teams to optimize application performance and enhance user experience.

Java JavaFX Google Cloud Platform Vertex AI

#### Computer Engineering Intern

Jul 2024 — Aug 2024

4US GAME OYUN, YAZILIM VE PAZARLAMA A.Ş. · İstanbul, Türkiye

- Built the entire front-end of 4US GameHub using Angular and HTML/CSS.
- Contributed to back-end development with .NET Core and performed load testing using Apache JMeter.
- Implemented bug fixes and improved the payment screen on the Byco website.
- Assisted in transitioning an existing JavaScript project to an Angular-based framework (Octa Health Hub).

Angular HTML CSS .NET Core Apache JMeter

### SELECTED PROJECTS

## FIVUCSAS

fivucasas.com

FIVUCSAS — Face and Identity Verification Using Cloud-based SaaS. Multi-factor biometric auth (face + voice + card + liveness).

Biometric Authentication OAuth 2.0 OIDC Multi-tenant SaaS Java 21 Spring Boot 3

## Mizan

High-precision Quranic text analysis engine with letter/word counting and Abjad calculations.

Python BM25 ISRI stemmer Translation embeddings FastAPI

## Muhabbet

Turkey's domestic messaging platform. Privacy-first, KVKK-compliant, Kotlin everywhere.

Kotlin Kotlin Multiplatform Ktor Jetpack Compose Compose Multiplatform

## EDUCATION

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### Computer Systems Engineering

Feb 2025 — Jun 2025

Instituto Politécnico do Cávado e do Ave · Braga, Portugal — Bachelor's degree (Erasmus+ semester)

### Computer Engineering

Sept 2021 — Jun 2026

Marmara University · İstanbul, Türkiye — Bachelor of Science

- Faculty of Engineering Football Team
- LÖSEV volunteer

### Anatolian high school

Sept 2017 — Jun 2021

İsmail Safa Özler Anadolu Lisesi · İstanbul, Türkiye — High-school diploma

- School futsal team
- Chess
- Darts
- Volleyball

## SKILLS

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### Desktop

Java · JavaFX · C# · .NET Core

### Mobile

Kotlin · Jetpack Compose

### Web

TypeScript · JavaScript · Angular · React · Spring Boot · FastAPI · JSP & Servlets · JSF · HTML · CSS

### Blockchain

Solidity · Smart Contracts

### Embedded

C · ARM Assembly · Socket Programming

### Machine Learning

Python · Data Mining · MATLAB

### Computer Vision

C++ · OpenCV

### 3D Programming

OpenGL

### Data & Search

PostgreSQL · Apache Solr · Hazelcast · pgvector · Microsoft SQL Server · Redis

### Systems & Platforms

Git · Linux · Docker · Traefik · Fluent Bit · Loki · Grafana · Software Design · Software Documentation · Doxygen · Apache JMeter · GCP · AWS · Firebase

## SELECTED CERTIFICATIONS

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## LANGUAGES

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Turkish (Native)   English (B2)

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