

AYHAN KEMAL BAYKAL

Senior Software Engineer | Technical Lead

+90 507 750 00 18

ayhankemal@gmail.com

PROFESSIONAL PROFILE

Senior Software Engineer with **21+ years of experience** in **banking, telecommunications, and anti-fraud systems**, delivering large-scale, mission-critical enterprise solutions.

Proven track record in:

- Designing **high-availability, distributed backend architectures**
- Leading technical teams on **national & international projects**
- Developing **real-time fraud detection** and **telecom network services**
- Bridging business requirements with robust, scalable software design

Strong background in **Java ecosystem**, event-driven architectures, and complex domain systems where **performance, data consistency, and reliability** are critical.

CORE EXPERTISE

- **Backend & Architecture:** Java (Enterprise), Spring Ecosystem, JEE, Hibernate
 - **Distributed Systems:** Kafka, Flink, Big Data Processing
 - **Databases:** Oracle, PostgreSQL, MS SQL, MySQL, DynamoDB
 - **Telecom Protocols:** SIP, SS7, IN
 - **Web & UI:** JavaScript, JSP, Thymeleaf, HTML, CSS, React, Node.js
 - **Domains:** Anti-Fraud Systems, Banking, Telecom Intelligent Networks
 - **Roles:** Senior Engineer, Technical Lead, Project Manager
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PROFESSIONAL EXPERIENCE

ASSECO South Eastern Europe — Istanbul, Turkey Senior Software Engineer | 09.2018 – 02.2026

Key contributor to enterprise-grade **anti-fraud platforms** used in financial and corporate environments.

Projects

- InACT Anti-Fraud Solution
- IDFraud Solution

Highlights

- Designed and developed backend components for fraud detection and identity risk analysis
- Worked on high-volume data pipelines using **Kafka & Flink**
- Contributed to scalable, modular architectures using **Java & Spring**
- Collaborated with cross-functional teams on long-term product evolution

Technologies:

Java, Spring, Kafka, Flink, Big Data, Oracle, MS SQL, PostgreSQL, JavaScript, Thymeleaf

Qualist Technology — Istanbul, Turkey

Senior Software Engineer | 09.2017 – 09.2018

- Developed MES & Industry 4.0 solutions with a focus on data analysis and manufacturing systems
- Worked on full-stack components integrating backend services with frontend interfaces

Technologies:

Java, AngularJS, C# .NET, MS SQL, HTML, JavaScript, CSS

Argela (Türk Telekom Group) — Istanbul, Turkey

Project Manager / Technical Lead / Senior Software Engineer | 10.2007 – 01.2017

Led and delivered multiple large-scale telecom projects across different countries and operators.

Key Responsibilities & Achievements

- Technical Lead for international JEE projects (Java, EJB, Hibernate, Redis, MySQL)
 - Led requirements analysis, architectural design, development, and delivery
 - Designed and implemented Intelligent Network services including:
 - Mobile VPN (Avea)
 - Equipment Identity Register (Bakcell, Azercell, Azerfon)
 - Centralized EIR (Rcom)
 - Premium Call Filtering Service
 - Mobile Number Portability systems
 - Worked extensively with SIP, SS7, IN protocols
 - Developed and maintained Convergence Gateway and Cloud VMS solutions
 - Designed ETL and reporting systems for telecom subscriber analytics
 - This role combined deep technical leadership with project ownership in mission-critical telecom environments.
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Anadolubank — Istanbul, Turkey

Software Development Specialist | 12.2006 – 10.2007

- Contributed to the **design and development of the AnadoluYatirim Investment Platform**, delivering core backend and web components
- Developed and maintained **Internet Banking web application**, implementing new features and enhancing existing functionality

Technologies:

PL/SQL, Javascript, HTML, CSS, XML, XSL, Oracle, CVS

KoçSistem — Ankara, Turkey

Software Development Specialist | 8.2004 – 11.2005

- Developed national-level financial and government systems (MASAK, Ziraat Bank)
- Masak Money laundering prevention project

Technologies:

J2EE, Spring, Hibernate, Sybase ASE, Oracle, PL/SQL, C#, .NET

EDUCATION

MBA — Bahçeşehir University, Istanbul (Coursework completed – Thesis stage)

B.Sc. Computer Science & Engineering — Hacettepe University, Ankara | 1998 - 2004