

HÜSEYİN KOCATÜRK

Software Engineer

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PROFESSIONAL SUMMARY

Computer Engineering graduate and full-stack software engineer (C#/.NET, Java/Spring Boot, React/Next.js) with experience in enterprise and freelance projects, including WMS modules, business management systems and educational platforms. Comfortable with large-scale codebases, relational database design and integrating AI/LLM APIs.

SKILLS

- Backend:** C#, ASP.NET Core, .NET Framework, Java, Spring Boot, Spring Data JPA, Entity Framework, SQL, PostgreSQL
- Frontend:** JavaScript, React, Next.js, Tailwind CSS
- AI & Data:** OpenAI API, Claude API, semantic search with embeddings, RAG, Python
- Tools & OS:** Git, Docker, Linux / Kali
- Languages:** Turkish (Native), English (Upper-Intermediate)

PROFESSIONAL EXPERIENCE

Software Engineer (Project-Based) | ALGORITMA360 Kocaeli | Jan 2026 – Mar 2026

- Developed and integrated new functional modules into an existing WMS application using C# and .NET Framework.
- Designed relational database schemas and optimized SQL queries for module operations, ensuring data consistency.
- Discovered a SQL injection vulnerability and reported it to senior management, leading to a fix; applied secure coding practices such as parameterized queries and input validation in new modules.

Intern Frontend Developer | İLET BİLİŞİM HİZMETLERİ Istanbul | Jan 2025 – Feb 2025

- Built reusable React components and responsive UIs for client projects with Next.js, Tailwind CSS and Framer Motion.
- Reduced initial load time by 30% by implementing code splitting and lazy loading.
- Delivered user-focused features in Agile sprints, joining daily stand-ups and sprint planning.

Intern Software Engineer | ALPATA TEKNOLOJİ YAZILIM Eskişehir | Jan 2024 – Feb 2024

- Developed a storage tracking system with ASP.NET Core and Entity Framework (Code-First modeling and migrations).
- Designed a normalized database schema for data integrity and performance; hashed sensitive data with SHA-256.

PROJECTS

Erasmus+ Partner Studio | Next.js, Python, PostgreSQL, OpenAI API

- Live AI platform that recommends Erasmus+ partner organisations via semantic search over 163,000+ past projects.
- Built the data pipeline, embedding-based ranking and a RAG layer (GPT-5 mini) that explains each match.

AI-Assisted Digital Banking Platform | Spring Boot & React

- Full-stack digital banking platform with a Spring Boot 4 REST API (JWT auth, PostgreSQL, Swagger) and a React dashboard, featuring AI-powered transaction analysis via the Claude API.

AI-Assisted Inventory & Operations Management System | ASP.NET MVC

- WMS-style inventory system with stock tracking and OpenAI-powered demand forecasting from inventory history.

EDUCATION

Eskişehir Technical University Eskişehir | 2020 – 2025
B.Sc. in Computer Engineering (English-taught program)

CERTIFICATIONS

Cyber Security Academy (101 · 201 · 301 · Bootcamp) Garanti BBVA Teknoloji

- Offensive, application, network, cloud and endpoint security; IAM, SIEM/SOAR, threat intelligence and hunting.
- Bootcamp: web, network and mobile app testing, malware analysis, incident response and forensics; 2nd place in CTF.

AWS Academy Cloud Foundations AWS Academy

- Covered cloud concepts and core AWS services (compute, storage, networking, databases), cloud security and pricing.

Web Development & Java Turkcell Academy

- Completed HTML 101, HTML5 & CSS 201, JavaScript 301, ASP.NET MVC 101/201 and Java 101/201 courses.

CONFERENCE PRESENTATION

Deep Learning Framework for Renal Pathology Classification and Segmentation Safranbolu | May 2025
Presenter — International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2025)