

Sunay Doğan

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Summary

Senior Software & Data Analytics Engineer / Consultant with a background in Mathematics and Economics. Specialized in building scalable, data-intensive enterprise systems, GenAI/RAG architectures, and translating complex business requirements into high-impact software solutions.

Experience

SELCO Consulting - Ankara, TR (R&D Center, Ankara Technopark)

Senior Consultant — Software & Data Analytics

August 2025 – current

- **Owned the technical implementation of SCORGUIDE™**, including the GenAI/RAG architecture, Milvus vector database integration, and full-stack application development, within a 4-person engineering team; automated supply chain transformation roadmaps based on the global SCOR model
- **Integrated complex business logic and unstructured knowledge bases** into LLM orchestration frameworks to deliver context-aware, actionable maturity reports for global supply chain leaders.

Consultant — Software & Data Analytics

May 2023 – July 2025

- **Led the rapid development and deployment (2-month turnaround) of a centralized enterprise planning application**, completely replacing legacy Excel trackers and a restrictive 2-user concurrent VPN system with a secure, OTP-enabled platform serving 20+ active users company-wide.
- **Automated multi-source data validation and weekly reporting workflows** for the planning application, reducing manual scheduling overhead while eliminating data-loss risks.
- **Developed the application layer of a web-based distribution analytics platform**, including an automated, row-by-row data validation engine and spatial logistics mapping visualization, supporting financial what-if simulations.
- **Engineered a retail assortment planner** that processes complex retail metrics using machine learning to identify high/low-performing SKUs and delivers multi-dimensional KPI insights for category planners.
- **Built and delivered 4 full-stack enterprise applications** from scratch using Django, React, and SQL, translating intricate operational requirements into scalable data products.
- **Mentored an intern through their transition into a full-time Consultant role**, contributing to team growth and knowledge continuity.
- **Self-initiated the team's first working RAG prototype** through independent research, establishing the technical direction later adopted for SCORGUIDE™'s GenAI architecture.

Isbank - Istanbul, TR

Strategic Planning Assistant Specialist

February 2020 – April 2022

- **Self-initiated the automation of recurring financial reporting processes** using Python, VBA, and UiPath (RPA), reducing manual effort and processing time by approximately 80%.
- **Produced strategic analytical reports** supporting C-level management decisions.
- **Conducted sectoral and trend analyses** using structured and unstructured data sources.

Skills

- **Core Software Engineering:** Python, Django, FastAPI, JavaScript, React, RESTful APIs, Git, OOP
- **Data & Analytics Platform:** SQL, Data Modeling, ETL Pipelines, Pandas, Power BI
- **AI, Vector & Orchestration:** RAG Architectures, LLM-based Agents, Milvus, Vector Search & Retrieval
- **Infrastructure & Cloud:** Linux, Bash, Docker, Microsoft Azure (App Services, Blob Storage, EntraID, AI Foundry)
- **Languages:** Turkish (Native), English (Advanced)

Education

Middle East Technical University (METU)

M.Sc. in Mathematics (TUBITAK 2210-A Scholarship Recipient)

B.Sc. in Mathematics (Double Major)

B.Sc. in Economics

August 2024

February 2021

June 2019

Istanbul University

A.S. in Computer Programming

Certifications

- Data Engineering Foundations - (IBM via Coursera)
- Data Science Expertise - Istanbul Technical University (ITU, 2021)