

# Eren Barış Bostancı

Maslak Mahallesi, Taşyoncası Sokak – Ağaoğlu 1453 Konutları – 34398 Sarıyer/İstanbul

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## Professional Summary

AWS Certified Senior Consultant with 12 active certifications and a dual-degree in Computer and Electrical-Electronics Engineering. Experienced in delivering GenAI and ML solutions on AWS using services like SageMaker and Bedrock. Skilled in cloud migration, model deployment, and automation with Python and Terraform.

## Education

### Koç University

BS in Computer Engineering, GPA: 3.2/4.0

CE Track Program: Artificial Intelligence

CE Track Program: Computer System, Networks, and Software

CE Track Program: Cryptography, Security, and Theory

Istanbul, TR

2018–2023

### Koç University

BS in Electrical and Electronics Engineering (Double Major), GPA: 3.2/4.0

Istanbul, TR

2020–2023

## Technical Skills

**Programming Languages:** Java, C/C++, C#, Python

**Frameworks & Libraries:** Spring Boot, Spring IoC, Django, Django REST, Keras, scikit-learn

**Machine Learning & AI:** PyTorch, TensorFlow, Generative AI, NLP, LLMs, Computer Vision

**Cloud & DevOps:** AWS, Google Cloud, Terraform, Docker

**Databases:** MySQL, MongoDB

**Tools & Platforms:** Git, Android Studio, MATLAB, VHDL, QT

**Software Engineering:** Data Structures, Software Design Patterns

## Work Experience

### Deloitte Consulting | Engineering, AI & Data

Istanbul, Türkiye

Senior Consultant

01.06.2025 – Present

Consultant

01.06.2025 – 01.06.2025

Business Analyst

01.08.2023 – 01.06.2025

- Implement chatbot solutions using Large Language Models (LLMs) on AWS and Google Cloud platforms, enhancing client engagement and service efficiency.
- Executed cloud migration and optimization projects, contributing to efficient resource utilization and performance improvements.
- Analyzed large datasets using machine learning techniques, leveraging cloud computing power to extract insights and trends for business optimization.
- Prepare and deliver compelling presentations to stakeholders, engage in client meetings to provide strategic business advice, and author detailed reports to document findings and recommendations.

## Internship Experience

### Dogma Alares, Machine Learning Engineer Internship

01.02.23 - 23.06.23

- Developed machine learning models for classification and regression tasks.
- Built data scraping and analysis tools using Python and ML libraries.

### HAVELSAN, Machine Learning Internship

01.08.22 - 13.09.22

- Solved an engine pressure estimation time series problem using a suite of machine learning models: XGBoost, Random Forest, Multi Layer Perceptrons, LSTM, and CNN to compare results.
- Used hyperparameter tuning using methods K-Fold, Optuna, and GridSearch to identify the best performing parameters for each model.

### TÜBİTAK BİLGEM, R&D Engineering Internship

20.06.22 - 25.07.22

- Developed a PID control system for an air diaphragm pump, which replaced a costly component in the project, resulting in enhanced accuracy and reduced costs.
- Implemented the system using Arduino and developed a GUI in QT.

### Yapı Kredi Technology, Software Engineer Internship

02.02.22 - 10.06.22

- Developed ISO8583 simulator as a TCP/IP socket server.
- Worked on database scripts and error reporting in a Switch/Swap team.

### TÜBİTAK MAM, Electrical-Electronics Engineering Internship

07.09.21 - 04.10.21

- Worked on object tracking and image processing using OpenCV.
- Developed a mobile app for reading 7-segment numbers from images.

### Yapı Kredi Technology, Software Engineer Internship

01.07.21 - 06.09.21

- Developed Spring REST microservices for credit-card information processing.
- Created a Loan Application App for Android devices.

## Languages

**Turkish:** Native

**English:** Fluent

## Interests

Basketball

Kickboxing

Painting

Video Games

## Course Projects

**HotSum (Electrical and Electronics Engineering Graduation Project):** Developed a video summarization model using DSNet, combining anchor-based and anchor-free methods for accurate temporal interest detection. Built a YouTube-based data collection tool utilizing the "most replayed" graph. Evaluated on SumMe and TVSum datasets. Integrated with a mobile app (Flutter) for user-uploaded video summarization via a Flask backend.

**INVESTSMART (Computer Engineering Graduation Project):** Created a financial platform offering real-time analysis and monitoring of stocks and financial instruments. Developed a mobile app and promotional web app covering full-stack components (frontend, backend, database, server). Key features include live market data, news feeds, and decision-support tools for investors.

**Clickbait Challenge at SemEval 2023 - Clickbait Spoiling:** Designed a spoiler generation system for clickbait posts using LLMs. Employed TF-IDF, GPT-3.5 with prompt engineering, and finetuned RoBERTa, LLaMA 7b (LoRA), Falcon 7b (QLoRA), and T5 Large. T5 Large achieved best performance in the comparative analysis.

**Unpaired Image-to-Image Translation with Slot Attention:** Integrated Google's SLOt attention into AttentionGAN for image translation. Converted SLOt from TensorFlow to PyTorch, applied on CycleGAN tasks (e.g., "summer to winter", "horse to zebra"), and compared results with original AttentionGAN.

**Confidential Maternal Health Guardian:** Built a differentially private prediction pipeline using SGD and random forest, ensuring robustness and privacy. Deployed the system via FastAPI to securely process maternal health data.

**Casual Game Development:** Developed a 2D Java game applying MVC architecture and design patterns.

**Morse Translator:** Designed a Morse translator on an FPGA board using VHDL, which was ranked as the 4th best project among 113 students.

**3D Snake Game:** Created a 3D snake game in OpenGL and C++, incorporating additional game features.

**Game Review Website:** Developed a website using HTML, NodeJS, and MySQL for game reviews.

**Linux Shell Implementation:** Implemented a custom Linux Shell in C, supporting basic and custom commands.

## Volunteer Work

**IEEE, Koç University, Committee Member**

2018-2022

- Organized training events and seminars for engineering students.

**IES, Koç University IndEx'19 Volunteer**

2018-2019

- Assisted in organizing workshops and seminars, and managed event day operations.

## Certificates

**AWS Certified Advanced Networking - Specialty**

06.04.2025

**AWS Certified Solutions Architect - Professional**

04.04.2025

**AWS Certified Data Engineer - Associate**

03.11.2024

**AWS Certified Security - Specialty**

17.11.2024

**AWS Certified SysOps Administrator - Associate**

16.11.2024

**AWS Certified DevOps Engineer - Professional**

20.10.2024

**AWS Certified Developer - Associate**

06.10.2024

**AWS Certified Machine Learning Engineer - Associate**

27.10.2024

**AWS Certified Machine Learning - Specialty**

29.10.2024

**AWS Certified Solutions Architect - Associate**

14.09.2024

**AWS Certified AI Practitioner - Foundational**

31.08.2024

**AWS Certified Cloud Practitioner - Foundational**

15.07.2024

**AWS Migration Ambassador Business Skill Badge**

17.10.2023

**AWS Generative AI Business Skill Badge**

10.10.2023

**AWS Application Modernization Ambassador Badge**

17.10.2023

**AWS Well Architected Best Practices Badge**

17.10.2023

**SQL Server BootCamp, Zemin İstanbul**

02.10.22 - 06.11.22

Hands-on training in SQL Server and T-SQL development.

**Machine Learning Winter School, Koç University – Türkiye İş Bankası**

2021

Attended intensive sessions on ML fundamentals, including predictive modeling for healthcare and time series data.

**Advanced Java, BTK Akademi**

2020

Completed advanced Java training covering Spring ecosystem, backend development, and layered architecture.