

BARIŞ GÜLEÇ

FULL-STACK AI ENGINEER | APPLIED AI & LLM SYSTEMS

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PROFILE

Full-Stack AI Engineer building production LLM, multi-agent, ML, and automation systems from data and model pipelines through backend, frontend, and deployment. Currently developing AI products at ESTAL in Barcelona and founder of Canada Next, an AI-native platform with 24K+ subscribers and 6M+ views. Computer Engineering graduate ranked 2nd in class.

CORE SKILLS

AI & LLM Systems: Multi-Agent Systems, RAG, Tool Calling, LLM Architecture, Fine-Tuning, LangChain/LangGraph

ML & Generative AI: PyTorch, TensorFlow, YOLO, RT-DETR, Computer Vision, FLUX.1-dev, TTS, Voice Cloning

Full-Stack & Data: Python, FastAPI, REST APIs, SwiftUI, JavaScript, Supabase, PostgreSQL, pandas

Infrastructure & Automation: Docker, Linux, MCP, Colab/GPU, Self-Hosted LLMs, n8n, Beszel, Power BI

EDUCATION & HONORS

Kütahya Health Sciences University - B.Sc. Computer Engineering

2022 - 2026

Graduated 2nd in class - GPA: 3.56/4.00 | Capstone: Swift iOS app with an Agno multi-agent AI health assistant

PROFESSIONAL EXPERIENCE

Full-Stack AI Engineer - ESTAL

Apr 2026 - Present

Barcelona, Spain - Remote

- Architected multi-agent AI workflows with Agno and LangGraph, combining tool calling, stateful orchestration, validation gates, and human review behind typed FastAPI services deployed with Docker.
- Built a Python/pandas/scikit-learn costing pipeline across purchase history, supplier offers, Navision quotes, and bareme tables; engineered confidence and recency features and trained Gradient Boosting models for explainable EUR/ton and EUR/unit predictions.
- Delivered a React/Vite and FastAPI LinkedIn intelligence platform with DeepSeek/Serper enrichment, scheduled pipelines, protected manual fields, transactional SQLite-to-MSSQL MERGE publishing, and Power BI-ready datasets.
- Productionized Playwright invoice automation with OTP session reuse and SharePoint routing, plus PaddleOCR/Gemini document pipelines for structured PDF extraction, bounding-box detection, anonymization, and logo/signature removal.

Founder & AI Product Engineer - Canada Next

Oct 2025 - Present

Independent

- Built and monetized an AI-native media platform, growing its YouTube channel to 24K+ subscribers and 6M+ views through an end-to-end AI content production system.
- Fine-tuned English TTS models with Unsloth on NVIDIA A100 infrastructure for multi-speaker voice cloning and low-latency speech generation.
- Fine-tuned FLUX.1-dev for custom visual generation and integrated speech, image, research, scripting, video production, and publishing into a unified AI workflow.
- Developed a native [SwiftUI news app](#) backed by Supabase and Gemini, aggregating 14 Canadian feeds into deduplicated structured summaries with scheduled Edge Functions and APNs notifications.

AI Engineer Intern - HAVELSAN

Jul 2025 - Sep 2025

Ankara, Türkiye

- Modified and fine-tuned RT-DETR and YOLO architectures, maintaining over 95% detection accuracy while reducing inference latency.
- Generated scene-specific synthetic training data with Stable Diffusion and IP-Adapter for rare computer-vision scenarios.
- Applied CLAHE-based dehazing and optimized GPT-OSS-20B for specialized inference workloads.

PROFESSIONAL EXPERIENCE - CONTINUED

AI Engineer - Fortune Teller Coffee

Sep 2024 - Aug 2025

Remote

- Developed an agent-based LLM product with FastAPI, Firebase, Docker, RAG pipelines, and LangChain-based reasoning workflows.
- Fine-tuned Gemma-3 27B on NVIDIA A100 infrastructure and integrated the model into a production application.
- Owned AI integration and backend architecture for a scalable, user-facing generative experience.

AI Engineer Intern - Dpointgroup

Jul 2024 - Oct 2024

Barcelona, Spain - On-site

- Processed and optimized business data with pandas and NumPy, applying VarianceThreshold feature selection and Word2Vec embeddings.
- Fine-tuned Llama and Qwen models for task-specific use cases and developed JavaScript automation workflows.

SELECTED PROJECTS

SafeDose - Founder | AI Medication Safety Platform

2026

- Placed 2nd at the AI'mpact Full-Stack AI Agent Hackathon with Kapsül AI, an İTÜ Çekirdek-supported healthcare startup.
- Built an App Store mobile application and web platform for AI-powered drug-drug and drug-food interaction analysis.
- Created a custom SGK-based drug dataset through a pandas ETL pipeline and integrated it into the product's safety workflow.

TEKNOFEST - Artificial Intelligence in Health, Finalist

2024

- Trained YOLOv8 to detect breast cancer lesions in mammography images with 95% accuracy.
- Used two Llama-based LLMs to correct radiology reports and fine-tuned a BI-RADS classifier that achieved 98% accuracy.
- Led the project team through technical development and finalist delivery.

Parallel Programming in PostgreSQL - T.C. Ministry of Industry and Technology

2024 - 2025

- Benchmarked query performance and parallel speedup across two PostgreSQL servers using controlled synthetic datasets.
- Produced an article-format performance report with findings and actionable recommendations for HAVELSAN.

AI-Assisted Laboratory Animal Monitoring

2023 - 2025

- Processed multi-camera video feeds with OpenCV and trained YOLOv8 for high-accuracy rat detection.
- Built a PyQt5 desktop interface for real-time experiment monitoring and laboratory workflow support.

AI INFRASTRUCTURE & DEVELOPER TOOLING

- Built and administered a private Linux AI environment with secure VPN access, self-hosted Qwen models, containerized services, and Beszel-based remote monitoring.
- Developed a custom MCP server and reusable AI coding skills to remotely operate Google Colab, execute GPU workloads, transfer artifacts, and automate repeatable experiments.

SPEAKING, PUBLICATIONS & COMMUNITY

- Speaker at the Kütahya Innovative Medical Technologies and AI Congress, presenting LLMs, RAG, and Transformer architectures.
- Author of 'Development of a Modular and User-Friendly Interface for AI-Supported Animal Behavior Experiment Software'.
- Graduate of the Harvard-affiliated Aspire Leaders Program; Google Developer Groups Core Team member; Medium contributor.