

Aslı Güngör

Computer Engineer

asligungorr4@gmail.com • +90 (536) 639-7813 • <https://linkedin.com/in/asligungor> • <https://github.com/asligungorr>

SUMMARY

Computer engineer with a strong focus on integrating backend architectures with AI-driven systems. Experienced in large language model workflows, including retrieval, fine-tuning, multi-agent coordination, semantic search, and context-aware generation. Skilled in modeling text-based knowledge structures, semantic similarity analysis, and structured output design. Demonstrates proficiency in building production-ready API infrastructures, implementing automated workflows, managing versioning processes, and deploying scalable services across distributed environments.

EDUCATION

TED University

Sep 2020 - Jun 2025

- B.Sc. in Computer Engineering
 - Relevant coursework: Large language models powered software, statistical learning, artificial intelligence, information retrieval, introduction to machine learning, operating systems

WORK EXPERIENCE

BeamSec

Sep 2024 - Jan 2025

- Artificial Intelligence Intern
 - Developed PhishLens, a generative AI tool to automatically craft realistic phishing emails using Gemini and GPT models; designed a Streamlit user interface and deployed the application on AWS
 - Created NewsletterApp for multilingual PDF/DOCX summarization using retrieval-augmented generation (RAG) pipelines and multi-agent workflows; leveraged OpenAI function calling for structured outputs
 - Followed version control and code review practices (Git/GitHub)

DIATICS Digital Intelligence

Jun 2024 - Sep 2024

- Backend Developer Intern
 - Contributed to the backend development of PhishUp, an AI-based SaaS product, using Python and FastAPI in a Scrum environment
 - Managed PostgreSQL databases, implemented REST APIs, wrote unit tests, and participated in code review
 - Supported CI/CD pipeline using GitHub Actions and deployed services to development environments

Bimser Çözüm A.Ş.

Jul 2023 - Aug 2023

- Software Engineer Intern
 - Developed web and mobile test automation scripts with Selenium, JUnit and Appium; designed BDD-based test cases and executed API tests with Postman

TECHNICAL SKILLS

Programming & Data: Python (2+ years), SQL (PostgreSQL, MySQL, MongoDB), C#, Java, data preprocessing, data validation

Frameworks/Libraries: LangChain, LlamaIndex, Haystack, HuggingFace Transformers, TensorFlow/Keras, FastAPI, Flask, Streamlit, ASP.NET Core

Vector Databases: Qdrant, ChromaDB, Weaviate

NLP & Text Analysis: Text analytics, NLP-based document analysis, Semantic structuring of long texts, Chunking strategies (section-based, paragraph-level, recursive), Structured text patterns (sections, clauses, exceptions)

LLM & RAG: Open-source LLMs (LLaMA), Familiarity with Gemma, Mistral, Qwen Retrieval-Augmented Generation, Agentic RAG

Retrieval & Evaluation: Retrieval behavior analysis, model output analysis, root cause analysis

MLOps & Cloud: Docker, AWS (EC2, S3), Bash, GitHub Actions, Git, basic Azure

AI Techniques: Supervised fine-tuning (QLoRA), prompt engineering, retrieval-augmented generation, multi-agent systems, speech-to-text (Whisper)

Evaluation & Workflow: Retrieval accuracy evaluation, Embedding quality analysis, Prompt optimization, Agile/Scrum, Cross-functional collaboration

PROJECTS

IntelliMate | Sponsored by BİTES Defence & Aerospace Technologies (ASELSAN Subsidiary)

- Fine-tuned LLaMA 3.1-8B-Instruct using QLoRA on NVIDIA A100 GPUs; optimized memory usage during training and inference
- Curated and labeled domain-specific datasets to improve reasoning and reduce hallucinations
- Deployed fine-tuned models as production-ready Flask APIs containerized with Docker
- Built an agentic RAG architecture with LangChain to coordinate translation and web search agents; optimized semantic and hybrid search with Qdrant and implemented reranking strategies for precise context retrieval across web (.NET Core) and mobile (Flutter) platforms
- Technologies: Python, LLaMA 3.1-8B-Instruct, QLoRA (SFT), LangChain, Qdrant vector database, Flask, RESTful API, Docker, .NET Core (ASP.NET), Flutter
- Note: Source code stored in a private GitHub repository due to corporate sponsorship; demo available upon request

TEDU LMS Assistant

- Developed an AI-driven learning assistant providing personalized study support using RAG pipelines and ChromaDB
- Implemented a multi-agent workflow (Study, Reminder, Chatbot Agents) for dynamic task management and used function calling/JSON schema for structured outputs
- Technologies: Python, Google Gemini API, ChromaDB, LangChain, RAG, JSON Schema, MySQL, Streamlit

Leadership Coach

- Built a leadership coaching assistant integrating Whisper speech-to-text, RAG pipelines and Weaviate vector database for real-time multimodal coaching
- Designed semantic retrieval and similarity search; orchestrated agentic AI responses via LangChain and deployed using Streamlit
- Technologies: Python, Whisper AI, Weaviate vector database, LangChain, Google Gemini API, Openai API, Streamlit

LANGUAGES

Turkish Native

English Professional working proficiency (B2)

PUBLICATIONS

Güngör, A., Emir, B. N., Yılmaz, S., Akdağ, M., Berkol, A., “An Integrative Approach to LLM Literature with the Combination of QLoRA, SFT and Agentic RAG”, *International Journal of Multidisciplinary Studies and Innovative Technologies (IJMSIT)*, vol. 9, no. 2, pp. 249–261, 2025.

<https://dergipark.org.tr/tr/pub/ijmsit/issue/95655/1803951>

CERTIFICATES

BTK Akademi / Python and TensorFlow for data science / Feb 2024

IBM Introduction to Machine Learning Specialization

University of Michigan Statistics with Python Specialization

Introduction to Deep Learning & Neural Networks with Keras

Software Engineering: Modeling Software Systems using UML

Software Engineering: Software Design and Project Management

Software Engineering: Implementation and Testing

Exploratory Data Analysis