



Mete Serpil

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ABOUT ME

I am a Computer Engineering graduate with a passion for software development, artificial intelligence, and emerging technologies. I have hands-on experience in full-stack web development, real-time data processing, and AI-driven applications through internships and research projects. I also contributed to an IEEE-published research project focused on virtual reality and medical imaging, working with technologies including ReactJS, Unity, C#, Python, and machine learning.

I am a fast learner who enjoys solving complex problems, writing clean and efficient code, and continuously improving my technical skills. I am eager to contribute to innovative software projects while growing as a software engineer in a collaborative and challenging environment.

EDUCATION AND TRAINING

2022 – 2026 Ankara, Türkiye

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING Çankaya University

WORK EXPERIENCE

BACKEND DEVELOPER INTERN – SEBIT EĞİTİM BİLGİLERİ VE TEKNOLOJİLERİ A.Ş. – 16/01/2026 – 22/05/2026 – ANKARA, TÜRKİYE

Developed and maintained scalable RESTful APIs using Spring Boot and Node.js to support Sebit's educational technology platform. Collaborated with frontend and product teams to design reliable backend services, ensuring high availability and performance across multiple applications.

FRONTEND DEVELOPER INTERN – İŞ YAZILIM – 07/2024 – 08/2024 – ANKARA, TÜRKİYE

During my internship, I worked on building and optimizing websites, implementing best practices for efficient front-end development. I focused on developing applications using ReactJS, creating dynamic user interfaces and enhancing functionality. This experience allowed me to improve my skills in modern web technologies while contributing to real-world projects.

SKILLS

Languages

Python | C++ | C | SQL

ML/AI

PyTorch | BERT/Transformers | nnU-Net

Backend/Data

JAVA (Spring Framework, SpringBoot, REST, Hibernate, JPA, JDBC, JAX-RS, Maven, Gradle) | MongoDB

DevOPS Tools

Linux | Git | Docker | GitLab | Agile Scrum | CI/CD

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
GERMAN	C1	C1	C1	C1	C1
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

10/10/2026 – 12/10/2026

Freya “Build the Builder” Hackathon: AI Agent Builder for Turkish Banking Voice Calls · Oct 2026
Python, LLM orchestration, Cloudflare Workers, REST APIs

- Write here the descriptioBuilt a Python tool that reads a bank’s unstructured documents (briefs, emails, meeting notes, API contracts, PDFs) and generates a working Turkish phone agent automatically, with no manual edits.
- Designed a hybrid setup: the LLM handles the conversation, while deterministic code handles date math, offer rules and closing logic. This made the agent’s behaviour repeatable and cut response time.
- Built a self-testing loop: the tool writes its own test calls, runs them against simulated customers, scores the results and repairs the agent automatically.
- Tested the agent on 250+ edge-case scenarios and reached **216/250** on an independent test set and **9/10** on the public benchmark.
- Built KVKK (Turkish data-protection law) safeguards into the generated agents (data minimisation, no exposure of card numbers) and tested them with adversarial prompt-injection scenarios.
- Wrote and deployed a mock banking API on Cloudflare Workers covering 7 services, contract-exact responses and error codes.

Link <https://github.com/meteserpil/BuildTheBuilder>

Term Project - MedVisVR

Contributed to the development of MedVisVR, a VR-based medical imaging platform for Meta Quest 3. Built interactive visualization features in Unity (C#), integrated AI-driven segmentation pipelines using nnU-Net and Python to convert MRI/CT scans into 3D anatomical models, and optimized real-time rendering for immersive medical education and surgical planning. Collaborated on VR interaction design, UI development, and medical image processing workflows.

Link <https://github.com/CankayaUniversity/ceng-407-408-2025-2026-MedVisVR>

Earthquake Detection and Report System

Designed a scalable real-time disaster response system using Apache Spark (Scala), Python, and MongoDB for distributed data processing, ETL, and Twitter API ingestion. Engineered data pipelines to process and analyze high-velocity social media streams, identifying emergency gathering areas and incident hotspots in real time. Applied software engineering and DevOps best practices, including Git-based version control, modular application design, environment configuration, and workflow automation to improve development efficiency and maintainability.

Link <https://github.com/CartmankF/bigdata>

Detection and Classification of Offensive Language in Turkish

Developed and fine-tuned BERT Transfer models to effectively detect and classify toxic language in Turkish text. Explored and contrasted various NLP preprocessing techniques to optimize model accuracy, focusing on preserving the context of informal Turkish communication.

Link <https://github.com/meteserpil/Detection-and-Classification-of-Offensive-Language-in-TurkishLanguage>

PUBLICATIONS

2026

[Transformative Technologies in Neurosurgery: a Systematic Literature Review](#)

Contributed to an IEEE-published research project on AI-assisted VR medical visualization, developing a platform that converts MRI/CT scans into interactive 3D anatomical models for Meta Quest 3. Assisted in integrating deep learning-

based segmentation (nnU-Net), Unity (C#), and immersive VR technologies to support medical education, surgical planning, and clinical visualization.

M. Serpil, A. B. Çetinkaya, M. Y. Özcan and S. Ataş, "Transformative Technologies in Neurosurgery: a Systematic Literature Review," 2026 5th International Informatics and Software Engineering Conference (IISEC) 2026, pp. Page 622-Page 627

Authors: Mete Serpil, A. B. Çetinkaya, M. Y. Özcan and S. Ataş | **Journal Name:** 2026 5th International Informatics and Software Engineering Conference (IISEC) | **Volume, Issue and Pages:** 10.1109/IISEC69317.2026.11418476 | **Publisher:** IEEE