

# Bilge Kağan Şenol – Computer Engineer

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Started with **C programming** and low-level problem solving, building a strong foundation in algorithms and system fundamentals. Later transitioned into backend development using **Django** and **Django REST Framework**, designing scalable APIs and production-ready services. After joining **AI projects**, shifted focus to **computer vision and deep learning**, working extensively with **OpenCV**, **PyTorch**, and modern model **fine-tuning** techniques. Currently developing end-to-end **AI systems**, integrating **LLMs**, **RAG pipelines**, and **image-based models** to solve real-world problems with efficient, maintainable solutions.

- **AI Engineer Intern – Peer Lead**, [FOREO](#) – Stockholm, Sweden (Remote) Sep 2025 – Present
  - **Team Leadership, Project Management**: leading a 4-person AI engineering team; assigning tasks, designing project architecture, reviewing deliverables, and ensuring milestone alignment across text-to-image and image-to-text pipelines.
  - **Text-to-Image Engineering, Python**: built and maintained advanced T2I pipelines using Pythonic design patterns, modular architecture, and robust data handling practices.
  - **Hugging Face, LLMs**: integrated and fine-tuned diffusion and transformer models via Hugging Face ecosystem; optimized inference routines and prompt structures for performance and fidelity.
  - **Gradio, Visualization**: developed interactive Gradio dashboards for real-time model visualization, image generation previews, and internal usability testing.
  - **End-to-End AI Systems**: implemented complete AI workflows from dataset preparation to model deployment, ensuring reliability and reproducibility across environments.
  - **Deployment & Optimization**: packaged models and pipelines for deployment with clean API interfaces; improved generation speed and runtime efficiency for team-wide usage.
  - **Cross-functional Collaboration**: coordinated with designers and product team to validate model quality, align generation output with brand expectations, and support content workflows.
- **Backend Developer & Local AI Fine-Tuning Intern**, [Ekoten Tekstil](#) – İzmir, Turkey Mar 2025 – May 2025
  - **Django REST Framework**: developed backend services for an internal AI-powered chatbot platform, designing clean API endpoints and scalable request/response pipelines.
  - **RAG Architecture, Retrieval**: implemented retrieval-augmented generation workflows; built embedding pipelines and document parsing routines to increase response accuracy and relevance.
  - **Ollama, Local LLM Fine-Tuning**: fine-tuned local LLM models using Ollama; optimized prompt structures, generation parameters, and memory usage for stable on-prem inference.
  - **Python, Data Processing**: built preprocessing scripts for cleaning, chunking, and indexing company documents; improved retrieval quality and reduced latency.
  - **Deployment**: packaged the LLM-based chatbot into a deployable backend module, enabling internal employees to access AI responses through a unified API.
- **Freelance Full Stack Developer**, [Kalıpcılar Aksesuar](#) – İzmir, Turkey (Remote) Jul 2025 – Present
  - **Django + DRF**: developed core backend APIs for e-commerce operations (auth, products, orders).
  - **React**: built responsive UI and integrated all frontend logic with REST endpoints.
  - **AWS EC2**: deployed the full-stack app on EC2 with Nginx/Gunicorn and secure configuration.
- **Software Intern**, [Spartacus Software](#) – İzmir, Turkey Jul 2024 – Aug 2024
  - **Oracle PL/SQL**: designed database schemas and wrote stored procedures for invoice management.
  - **ERP Modules**: contributed to core features of a preliminary accounting ERP system.
  - **Data Integrity**: optimized queries and improved reliability of transaction workflows.

## EDUCATION

- **B.S. in Computer Engineering**, Yaşar University – İzmir, Turkey 2020 – 2025 (Graduated)

## PROGRAMMING LANGUAGES & TECHNOLOGIES

- **Languages**: Python, JavaScript, C, SQL
- **Framework/Libraries**: Django, Django REST Framework, React.js, PyTorch, OpenCV, Hugging Face Transformers, Gradio
- **Technologies/Tools**: AWS EC2, Git, Linux, Nginx, Gunicorn, PostgreSQL, SQLite, Ollama, REST APIs, Virtual

Environments

- **AI / Machine Learning:** LLMs, RAG Pipelines, LoRA Fine-Tuning, Diffusion Models, Embedding Models, Computer Vision, Image Processing, Model Deployment, Prompt Engineering