

# OĞUZ YEŞİL

## APPLIED AI / ML ENGINEER

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### PROFILE

Software developer focused on applied AI and machine learning, with hands-on project experience in Python, PyTorch, Hugging Face and LoRA fine-tuning of Qwen language models. Worked on dataset preparation, supervised fine-tuning, training troubleshooting and model integration through text-to-SQL and code assistant projects. Brings client delivery experience and ownership of a published desktop product, Local Panel/Lite. Studying Nanotechnology Engineering and seeking a remote Junior or Associate Applied AI/ML Engineer role.

### TECHNICAL SKILLS

**AI / ML:** Python, PyTorch, Hugging Face Transformers, Unsloth, LoRA, supervised fine-tuning, dataset preparation, train/test splits, tokenisation, chat templates, prompt masking, GPU memory troubleshooting

**Model applications:** LLM API integration, Gradio, Hugging Face Spaces, text-to-SQL, code generation

**Backend / data:** FastAPI, REST APIs, Java, Spring Boot, PostgreSQL, MongoDB

**Software / delivery:** Git, Docker, Flutter, Dart, Firebase, Provider, ChangeNotifier, Dio, go\_router

### APPLIED AI / ML PROJECTS

#### Qwen Text-to-SQL Fine-Tuning

Personal learning project | 2026 | Python, PyTorch, Hugging Face, Unsloth, LoRA

- Worked on supervised fine-tuning of Qwen3-0.6B using the Gretel synthetic text-to-SQL dataset, with a 25,000-example training split and a 2,500-example test split.
- Prepared structured prompts and SQL/explanation targets; worked with chat templates, tokenisation, padding, truncation and prompt-token masking in the training labels.
- Configured LoRA training and adjusted batch sizes, gradient accumulation and gradient checkpointing while troubleshooting GPU memory, precision and dependency issues.

#### Mini Code Assistant

Personal project | 2026 | Qwen, Unsloth, LoRA, Gradio, Hugging Face Spaces

- Worked on a Qwen-based code assistant using LoRA fine-tuning, including training-data preparation and adapter-based model loading.
- Worked on a Gradio / Hugging Face Spaces demo, addressing model-loading, GPU execution and conversational chat-template integration issues.

Project overview: [oguzyesil.dev/work/mini-code-assistant](https://oguzyesil.dev/work/mini-code-assistant)

### CURRENT LEARNING

Studying reinforcement learning for language models, including GRPO, PPO and DPO; exploring synthetic scientific datasets and evaluator design through an ongoing Quantum Discovery Lab project.

## PROFESSIONAL EXPERIENCE

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### Nesdzo LTD | Director & Developer

April 2025 - Present

- Developed and published Local Panel and Local Panel Lite, a Flutter product family for SSH-based server management across desktop platforms.
- Handled feature development, API integration, release preparation and product marketing, taking the application from an initial idea to public availability.

### Bionluk | Freelance Flutter Developer

September 2024 - February 2025

- Delivered client applications including Fendrix, a coffee-ordering app with a web admin panel, and Vitrin, a marketplace application.
- Implemented Firebase and REST API integrations, application state with Provider and ChangeNotifier, and navigation with go\_router.

### Bonjo | Software Engineer (Volunteer)

February 2024 - July 2024

- Contributed to backend project work using Python, FastAPI and MongoDB; explored Wi-Fi fingerprinting through practical development tasks.

## PUBLISHED PRODUCT & CLIENT PROJECTS

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### Local Panel & Local Panel Lite

2026 | Flutter, Dart, SSH | [localpanel.app](https://localpanel.app)

- Built remote server monitoring and management, with premium features including a visual Bash workflow builder, one-click installations and deployments, configuration comparison and temporary access sharing.
- Implemented local credential storage using operating-system keychain encryption. Published the full edition for macOS and Windows and a feature-limited Lite edition for macOS, Windows and Linux.

**Fendrix (2024):** Coffee ordering with scheduled orders, promotions and a Flutter web administration panel.

**Vitrin (2025):** Marketplace with listings, offers, seller accounts and search. Both were commissioned freelance projects.

## EDUCATION

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### Sivas Cumhuriyet University | Nanotechnology Engineering

October 2023 - Present

## ACHIEVEMENTS

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**ATP & Alibaba Cloud:** 3rd place, software developer participant (May 2024).

**Huawei Enterprise Türkiye:** Finalist; ranked 6th among 928 participants in the preliminary round (October 2023).

## SELECTED CERTIFICATIONS & LANGUAGES

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**Certifications:** Alibaba Cloud Certification (2024); Huawei Cloud Developer Certification (2024); Introduction to Deep Learning, Global AI Hub (2023); CS105: Introduction to Python, Saylor Academy (2023); Advanced Level Java, BTK Academy (2023).

**Languages:** Turkish - Native | English - Intermediate