

Tornike Onoprishvili

Full-stack Machine Learning Engineer

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Profile

Full-stack machine learning engineer with 6+ years of experience creating AI products for small-to-medium sized enterprises and providing consultancy for AI adoption. Experienced in cloud computing, model evaluation, creating APIs for models and fine-tuning.

Skills

- **Programming:** Python, CUDA, TypeScript
- **Frameworks:** PyTorch, TensorFlow, HuggingFace, vLLM, MLflow
- **AI/ML:** Fine-tuning, QLoRA, Pretraining, Model Alignment
- **UI:** Next.js, React, Tailwind
- **Soft skills:** Leadership, stakeholder communication, independent research, mentorship
- **Languages:** English (C1/bilingual)

Professional Experience

Machine Learning Engineer, self-employed, 2019–present

- [Top-rated machine learning engineer on UpWork](#), with a 100% client satisfaction rate.
- Completed [15+ machine learning projects](#), earned \$120k+, and billed 1.2k+ hours.
- Specialized in end-to-end machine learning engineering, including data extraction, pre-training, fine-tuning, API deployment on cloud.

Selected Projects

- **SpectruMS:** a new AI model for drug discovery. SpectruMS is a large transformer trained on the entirety of the internet's chemical spectral data on Google TPUs. I designed and built SpectruMS end-to-end—from scratch to an inference API on AWS. SpectruMS [was presented at ICCS25 conference](#).
- **SimMS:** a search engine for chemicals that runs on GPUs. I used advanced GPU algorithms, CUDA to create a Python library for fast search engine for massive datasets of chemicals. I [published the method](#) in a peer-reviewed scientific journal and maintain an [open-source library](#).

Awards & Honors

- **ISC25 Student Cluster Competition, Germany:** I am a winner of the third place prize in distributed training of large language model (Llama 3.1) using QLoRa on eight H200 GPU system using PyTorch, Python, and HuggingFace transformers.
- **Neural Wave Hackathon, Switzerland:** I am a winner of the second place and \$2500 prize for developing a AI customer support chat-bot for Swisscom. Swisscom later reached out to our team to help with integrating our developed system to production.

Education

- **Master of Computer Science, USI, Switzerland, and LUT, Finland, 08/2023–07/2025**
- **Bachelor of Engineering, Free University, Georgia, 08/2015–08/2019, summa cum laude**