

# Tornike Onoprishvili

Full-stack AI specialist

I am a full-stack AI specialist. Teaching, researching, deploying - you name it. I can plan, implement and deploy AI-backed apps for general use.



tornikeonoprishvili@gmail.com

+995 579 11 85 83

Tbilisi

tornikeo.github.io

twitter.com/tornike\_o

github.com/tornikeo

## WORK EXPERIENCE

### Full-stack AI specialist

Upwork Inc. [↗](#)

08/2020 - Present

A popular online freelancing company

Achievements:

- Deployed real-time 2D human pose estimation on the web [↗](#)
- Fine-tuned and deployed GPT-2 as an easy to writing assistant [↗](#)
- Developed deep neural network for chemical toxicity prediction [↗](#)

### AI online tutor

Freelancer

01/2021 - 04/2022

A popular online freelancing company

Achievements/Tasks

- Guided Master's thesis in AI for Saint Francis Xavier University student
- Oversaw Bachelor's thesis in Data science for Duisburg Essen University student
- Guided Bachelor's thesis in Computer Vision for University of Washington student

### Data Scientist

ACT Inc.

02/2020 - 09/2021

Tbilisi, Georgia

ACT - Analysis and consulting firm, provides business intelligence and polling services

Achievements/Tasks

- Created a collaborative filtering solution for automatic recommendations based on customer transaction data of a local pharmaceutical company
- Developed a data pipeline for cleaning, aggregation, and automatic reporting for a hospital transactional database
- Oversaw communications with the data engineering team and delivered reports based on the data insights

## PUBLICATIONS

Realization of true all-optical AND logic gate based on nonlinear coupled air-hole type photonic crystal waveguides (04/2016 - 09/2017) [↗](#)

Designing laser-powered logical gates to build an AND gate. (One of the basic atoms for any computing system).

Functional all-optical logic gates for true time-domain signal processing in nonlinear photonic crystal waveguides (06/2017 - 03/2020) [↗](#)

Designing an optical NAND gate previous research. Any computing system may be built using many NAND gates.

19 July, 2022

## SKILLS

Python

Machine Learning

MLOps

Data science

Development

Git

Bash

Docker

Tensorflow

PyTorch

GCP

Azure

Mathematics

Scikit-Learn

Pandas

## PERSONAL PROJECTS

Style transfer network in Javascript (08/2021 - Present) [↗](#)

- Implemented a bleeding-edge research paper from scratch
- Optimized and packaged the network for use in Javascript
- Deployed the network as a static website, with technical explanations

Research in Tabular Deep Learning (05/2022 - Present) [↗](#)

- [Created day-to-day logs of research progress](#)
- Replicated the current state-of-the-art papers in tabular DL

Research in Photonics with Ferroelectric Vortex Lattice (03/2022 - Present)

- [Performed material testing in pymeep environment](#)
- [Performed dispersive material testing for metallic silver cylinders](#)

Project Name

## EDUCATION

### BEng in Electrical Engineering

Free university of Tbilisi [↗](#)

2015 - 2019

GPA - 3.56

## LANGUAGES

English

Native or Bilingual Proficiency

Russian

Professional Working Proficiency