

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.



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WORK EXPERIENCE

Full-stack AI specialist

UpWork Inc. [↗](#)

08/2020 - Present

Achievements:

- Created a neural network for toxicity prediction in unseen substances [↗](#)
- Led an end-to-end project with artistic style transfer networks [↗](#)
- Designed stress estimation application for use in VR headsets in Tensorflow [↗](#)
- Created a trading analytics pipeline for automatic aggregation of FX trading portfolios

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

Lecturer of Computer Engineering

Free university of Tbilisi

09/2019 - 02/2020

Tbilisi, Georgia

Achievements:

- Delivered computer architecture lectures [↗](#)
- Co-authored two research papers concerning optical logic gates [↗](#)
- Contributed to creating a new curriculum

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 and 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.

29 March, 2022

SKILLS

Python

Machine Learning

Data science

Software development

Git

Bash

Docker

Tensorflow

PyTorch

GCP

Azure

Mathematics

Scikit-Learn

Pandas

PERSONAL PROJECTS

Holistic pose-net (02/2022 - Present) [↗](#)

- Created CI/CD pipeline for automating build/deployment processes
- Created a distilled network for better performance on mobile devices
- Refined posenet output to create useful body mappings

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

EDUCATION

MTech in Artificial Intelligence

Georgian Technical University [↗](#)

2019 - 2021

BEng in Electrical Engineering

Free university of Tbilisi [↗](#)

2015 - 2019

GPA - 3.56

LANGUAGES

English

Native or Bilingual Proficiency

Russian

Professional Working Proficiency