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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github.com/tornikeo ⊙

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WORK EXPERIENCE

Freelance AI specialist
Self-employed

2021 - 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.

2020 - 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
Free university of Tbilisi

2019 - 2020   *Tbilisi, Georgia*

Achievements:

- Delivered computer architecture lectures ⊡
- Co-authored two research papers concerning optical logic gates ⊡

EDUCATION

Bachelor of Engineering
Free university of Tbilisi ⊡

2015 - 2019   *GPA - 3.56*

Thesis:

- Realization of true all-optical AND logic gate based on nonlinear coupled air-hole type photonic crystal waveguides

SKILLS

`Python` `Machine Learning` `Data science` `Software development` `Git` `Bash` `Docker` `Tensorflow` `PyTorch` `Mathematics` `Scikit-Learn` `Pandas`

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.

PERSONAL PROJECTS

Holistic pose-net within as a github-pages app ⊡
- Created CI/CD pipeline for automating build/deployment processes
- Refined posenet output to create useful body mappings

Style transfer network in Javascript ⊡
- 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

LANGUAGES

English
Native or Bilingual Proficiency

Russian
Professional Working Proficiency

INTERESTS

`Human-AI Interaction` `Federated learning` `AI with Javascript` `Teaching`