Artem Petrov

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Data Scientist and Python Developer
Strong product mindset with a focus on delivering business impact

SKILLS

Data science: Prompt Engineering, LangChain, LLMs, Machine Learning, Deep Learning with Pytorch, Computer Vision (segmentation with Unet), Data augmentation, Data visualization
Software development: Python (4 years) (data science stack; PyTorch; FastAPI; SQLAlchemy, Plotly:dash), SQL, Git, Docker, Bash, Java/Kotlin for Android (1 year), C++ (6 months)
Other: advanced Linux user, LaTeX

EXPERIENCE

Project Lead & Researcher @ Palisade Research   Jul 2024 – Present
- Built interactive demos showcasing dangerous AI capabilities to raise public awareness of unsolved AI safety problems
- Evaluated LLM jailbreaks
- "These results are great!" - RAND team about my work during Palisade-RAND collab

Python Developer & Prompt Engineer @ We Are Volt   Feb 2024 – Aug 2024
- Built, tested, and deployed to production a multi-staged RAG pipeline for Q&A and Analytics over a custom CMS containing visual, textual and numerical information sources

Data Scientist & Python Developer @ Tentakel   Jan 2023 – Feb 2024
- Developed pipelines for automatic data analysis and document Q&A with LLMs and wrapped them in a REST API
- Deployed LLM-based products to production in the form of Telegram bots and Slack apps
- Benchmarked text embedding models for semantic search

Data Science Researcher @ IRA-Labs [part-time]   Sep 2021 – Jun 2022
- Trained UNets for organ segmentation on CT images

Data Science Intern @ IRA-Labs   Jul 2021 – Aug 2021
- Proposed and implemented new data augmentation based on the analysis of the target dataset, which led to a 9% improvement in the target metric

Data Science Intern @ Russian Academy of Sciences, Institute for Information Transmission Problems   Aug 2020
- Investigated viability of implementing attention in Simple Graph Convolution neural net architecture

Python developer @ Freelance   Jun 2020 – Jul 2020
- Developed a web dashboard to represent internal data with Plotly|dash

System administrator [part-time]   2017 – 2024
- Set up, maintained, and migrated Linux-based mail servers

PUBLICATIONS

Hacking CTFs with Plain Agents   Dec 2024
- We achieve SOTA on a CTF benchmark with a simple agent harness

EDUCATION

Yandex School of Data Analysis, Moscow, Russia   2022 – 2023
- Part-time masters-level private program in data science and software engineering

Moscow Institute of Physics and Technology, Moscow, Russia   2017 – 2022
BS, Applied Mathematics and Physics: Computer Technologies and Intellectual Data Analysis
- GPA: 3.9/4, **top-2%**
- Top-1 university in Russia in CS according to THE university ranking

Physics and Mathematics Lyceum №239, Saint-Petersburg, Russia   2013 – 2017
- Every year from 2015 to 2020, the Lyceum was recognized as the best school in Russia

Independent coursework
- C++ Programming course on Stepik   Aug 2022 – Nov 2022
- Machine Learning and Data Analysis specialization on Coursera   Sep 2019 – Feb 2020

LANGUAGES

English: C1 \ Full Professional Proficiency
Russian: Native language

LECTURES & **TALKS**	**Lecturer @ Lalambda School**	Aug 2023

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A biyearly summer school on advanced CS topics

- Taught a 16-hour course on the latest advancements in NLP with a deep dive into the Transformer Architecture

Seminarist @ Tbilisi PRC   2023

A paper reading group in Tbilisi with a focus on machine learning and CS topics

- Led a couple of dozen seminars on fundamental deep learning papers

AWARDS & SCHOLARSHIPS

- Phystech Foundation Scholarship   Sep 2018 – Sep 2021
  Awarded to students with the highest GPA (top 10%) until their last year
- Advanced Academic Scholarship   Jul 2018 – Feb 2021
  Awarded to students with A marks only in the preceding term
- Gold medal awardee of the Asian Physics Olympiad   2017
- Gold and Silver medal awardee of the International Zhautykov Olympiad in Physics   2016, 2017
- Winner of the Russian National Physics Olympiad   2015, 2016, 2017

PET PROJECTS

ns-scheduler

A tool to schedule the work time of applications deployed to the Kubernetes cluster for development/testing purposes to not waste resources when no one is using them

rainbow-track

GNOME shell extension for smooth time tracking on Linux with Toggl Track