

Artem Petrov

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SKILLS	<p>LLMs: Prompt Engineering, Agent harness design, Tracing, LangChain, RAG, Evaluations</p> <p>Data science: Experimental design, Machine Learning, Deep Learning with Pytorch, Computer Vision (segmentation with Unet), Data augmentation, Data visualization</p> <p>Software development: Python (6 years) (data science stack; PyTorch; FastAPI; SQLAlchemy; Plotly; dash), SQL, Git, Docker, Bash, Java/Kotlin for Android (1 year), C++ (6 months)</p> <p>Other: advanced Linux user, advanced Cursor user, \LaTeX, typst</p>	
EXPERIENCE	Project Lead & AI Safety Researcher @ Palisade Research	Jul 2024 – Present
	<ul style="list-style-type: none">▪ Built demos to raise awareness of AI Safety issues, reaching millions of people▪ Evaluated evals gap in AI cyber capabilities, achieving state-of-the-art results, and explored ways to fix it▪ "These results are great!" - RAND team about my work during Palisade-RAND collab	
	Python Developer & Prompt Engineer @ We Are Volt	Feb 2024 – Aug 2024
	<ul style="list-style-type: none">▪ Built, tested, and deployed 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
	<ul style="list-style-type: none">▪ Developed pipelines for automatic data analysis and document Q&A with LLMs and wrapped them in a REST API▪ Deployed LLM-based products in the form of Telegram bots and Slack apps	
	Data Science Researcher @ IRA-Labs [part-time]	Jul 2021 – Jun 2022
	<ul style="list-style-type: none">▪ Trained UNets for organ segmentation on CT images	
	Data Science Intern @ Russian Academy of Sciences, IITP	Aug 2020
	<ul style="list-style-type: none">▪ Investigated viability of implementing attention in Simple Graph Convolution neural net architecture	
	Python developer	Jun 2020 – Jul 2020
	<ul style="list-style-type: none">▪ Developed a web dashboard to represent internal data with Plotly dash	
	System administrator [part-time]	2017 – 2024
	<ul style="list-style-type: none">▪ Set up, maintained, and migrated Linux-based mail servers	
PUBLICATIONS	GPT-5 at CTFs: Case Studies From Top-Tier Cybersecurity Events	Nov 2025
	<ul style="list-style-type: none">▪ We show GPT-5 outperforming 90% of human hackers on one of the hardest public CTF competitions	
	Evaluating AI cyber capabilities with crowdsourced elicitation	May 2025
	<ul style="list-style-type: none">▪ We host AI tracks on CTF competitions and show AI outperforming 79% of human hackers	
	Biollama: testing biology pre-training risks	Feb 2025
	<ul style="list-style-type: none">▪ We collaborate with RAND to find if adversaries can fine-tune LLMs for use as bio lab assistants	
	Hacking CTFs with Plain Agents	Dec 2024
	<ul style="list-style-type: none">▪ We achieve SOTA on a CTF benchmark with a simple agent harness	
LECTURES & TALKS	Speaker @ AI Governance workshop at AAAI	Jan 2026
	<ul style="list-style-type: none">▪ Spoke about current state of AI Security and its differences from traditional cybersecurity	
	Keynote Speaker @ Zurich AI Safety Day	Sep 2025
	<ul style="list-style-type: none">▪ Presented "Getting started in AI safety" talk to an audience of 150 people	
	Lecturer @ Lalambda School	Aug 2023
	A biyearly summer school on advanced CS topics	
	<ul style="list-style-type: none">▪ Taught a 16-hour course on the latest advancements in NLP with a deep dive into the Transformer Architecture	
	Seminarist @ Tbilisi Paper Reading CLub	2023
	<ul style="list-style-type: none">▪ Led a couple of dozen seminars on fundamental deep learning papers	
EDUCATION	ARENA (Alignment Research Engineer Accelerator) , London, UK	Apr 2025 – May 2025
	<ul style="list-style-type: none">▪ An upskilling program for AI safety researchers designed by engineers from Google Deepmind	
	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

LANGUAGES

English: C1 \ Full Professional Proficiency

Russian: Native language

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

Gold Medal Awardee at National and International Physics Olympiads 2015 – 2017

Judge at the finals of the National Physics Olympiad 2018 – 2019