

Georgy Savva

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RESEARCH INTERESTS

Multimodal Learning, Representation Learning, Image Generation, Reinforcement Learning, Intelligent Agents

EDUCATION

New York University <i>Master of Science in Computer Science, Courant Institute of Mathematical Sciences. GPA: 3.8</i> Relevant courses: Computer Vision	New York, United States 2024 – Expected 2026
Russian University of Cooperation <i>Bachelor of Science in Computer Science</i>	Moscow, Russia 2019 – 2021
National Research Nuclear University MEPhI <i>2 years toward Bachelor of Science in Computer Science</i>	Moscow, Russia 2014 – 2016

RESEARCH EXPERIENCE

Research Intern <i>NYU Courant Institute of Mathematical Sciences, Advised by Prof. Lerrel Pinto</i>	Jun 2024 – Nov 2024 New York, United States
<ul style="list-style-type: none">Setup an auto-resettable reinforcement learning environment for online robot training using the spacemouse deviceApplied online reinforcement learning to fix the human demonstration morphology gap for dexterous robotic manipulationTrained a behavior cloning policy using transformers on third-person human demonstration data to solve dexterous robotic hand tasks	

PUBLICATIONS

- HuDOR: Bridging the Human to Robot Dexterity Gap through Object-Oriented Rewards*
I. Guzey, Y. Dai, **G. Savva**, R. Bhirangi, L. Pinto.
ICRA 2025 (Under Review). [Website](#)

PROJECTS

Transformer-Based Diffusion for Game Generation Trained a transformer diffusion model to simulate DOOM trajectories. It achieves a PSNR of 32.21 in the teacher-forcing setting, producing an indistinguishable quality from the ground truth. Website	Oct 2024 – Dec 2024
Advantage Actor-Critic with Optuna Trained a reinforcement learning agent with Optuna for the HalfCheetah env, achieving a 24% better performance than the best publicly available policy. Website	Jul 2024 – Sep 2024
Open-Source Library Scany Created an open-source library to map data from a database into Go objects. The library has 1,300 stars on GitHub and is used by thousands of companies. GitHub	May 2020 – Present

INDUSTRY EXPERIENCE

Senior Software Engineer <i>Raylu</i>	Oct 2023 – May 2024 New York, United States
<ul style="list-style-type: none">Led backend development of an LLM chatbot for healthcare and deployed it to production, serving first paying customersDeveloped an LLM-powered SaaS workflow automation application using the open source workflow engine activepieces, allowing the company to release a new product in under 3 months	
Technical Co-Founder <i>Scifind</i>	Jul 2022 – Aug 2023 Los Angeles, United States
<ul style="list-style-type: none">Launched a troubleshooting platform for bioscientists into production, gaining 4,000 MAU in the first 2 monthsLed the development of the product with a team of 2 engineers using TypeScript, Next.js, and Node.js	

Senior Software Engineer

Jan 2021 – Jul 2022

IOTA

Berlin, Germany

- Developed a new network layer of the blockchain node using libp2p, decreasing the number of peering errors by 70%
- Set up automatic deployment via Ansible and GitHub Actions, accelerating the development speed by 25%
- Introduced Go guidelines to the project and tools to ensure them, reducing the frequency of bugs by 50%

Senior Software Engineer

Jan 2020 – Jan 2021

Elsa

San Francisco, United States

- Implemented App Store and Google Play in-app subscriptions as microservices using FastAPI, which improved the correctness of billing by 50%
- Integrated payment gateway Instamojo, increasing the number of app purchases in Asia threefold

Software Engineer

Mar 2017 – May 2019

Edwin.ai

San Francisco, United States

- Participated in building the English tutor chatbot from a prototype stage to being the top 1 bot on Facebook
- Implemented a YAML-file-based framework for building dialog systems, which allowed the company to launch a new product on Google Assistant
- Designed a distributed queue using PostgreSQL to handle messages from 800,000 users
- Developed the user knowledge graph service using Neo4j, improving the performance of read queries threefold

Software Engineer

Jun 2016 – Mar 2017

Snaappy

Moscow, Russia

- Rewrote the messaging service in Go, which increased the backend performance fivefold
- Migrated the chat storage from PostgreSQL to MongoDB, allowing horizontal scalability for the data layer
- Implemented a WebSocket service for real-time updates using Go, driving user engagement by 30%

SKILLS

Languages: Python, SQL, Go, TypeScript

Machine Learning: Transformers, Diffusion, U-Net, CNN, LSTM, Reinforcement Learning, Distributed Training

Libraries: PyTorch, Gym, Optuna, Hydra, TensorFlow, Numpy, Pandas, FastAPI, React, Node.js

Tools: Docker, Kubernetes, PostgreSQL, AWS, GraphQL, Hasura

CERTIFICATIONS

Probability & Statistics for Machine Learning & Data Science

Sep 2024

DeepLearning.AI, GPA: 93/100

Improving Deep Neural Networks

Jun 2023

DeepLearning.AI, GPA: 98/100

Neural Networks and Deep Learning

May 2023

DeepLearning.AI, GPA: 97/100

YC Summer Startup School

Aug 2022

Y Combinator

Intro to Machine Learning

Jul 2022

Kaggle

Mathematics for Machine Learning: Multivariate Calculus

Dec 2021

Imperial College London, GPA: 96/100

Mathematics for Machine Learning: Linear Algebra

Dec 2021

Imperial College London, GPA: 96/100