

Kirill Goltsman

Software Engineer -- AI, ML, blockchain

I am a software engineer with 7+ YoE specialized in AI/ML and blockchain. Besides that, I have a passion for writing about technology.

WORK EXPERIENCE

Orichal Partners, Hong Kong — *Data Scientist / ML Engineer*
05.2022 - 03.2024

- engineered a robust ETL pipeline to extract and load blockchain data from 2 GraphQL nodes.
- deployed statistical models to analyze and predict DeFi protocol's user behavior, leading to 50% of funds reinvestment increase.
- applied LLMs for sentiment analysis, summarization, and NER with in-house data, achieving an 93% accuracy rate.
- fine-tuned language models with proprietary data for automated Q&A applications and chatbots.
- worked with cross-functional teams, including engineers, product managers, and business analysts to ensure seamless integration of developed statistical models.

Orichal Partners, Hong Kong — *Senior Software Engineer*
07.2020 - 05.2022

- developed core smart contracts for the DeFi financial protocol, and engineered supporting governance, token emission, and staking ecosystem.
- created a data schema and deployed Graph protocol nodes to index contract data, resulting in an 80% increase in data retrieval speed by the application's frontend.
- managed contract deployments, operations, and upgrades on the EVM-compatible blockchains.
- conducted peer review of junior developers' code improving code quality.
- interviewed prospective candidates for the smart contract developer roles in the company.

Qbox Inc., USA — *Technical Content Manager*
04.2017 - 11.2019

- managed key components of tech content pipeline including content ideation, writing, editing, scheduling, publishing, and social media distribution
- led a team of content writers, overseeing topic assignment, technical and quality reviews, and editing. Boosted content output from 2 to 4-5 items per week.
- authored comprehensive documentation for the company's software products.
- produced engaging content for two company's Kubernetes training courses.
- collaborated with the marketing team to refine content strategies, SEO, trend analysis, and social media marketing, increasing web traffic by 35%.
- authored over 50 e-books, blogs and tutorials about Kubernetes, cloud-native applications, AI/ML, and Elasticsearch.

CONTACT

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SKILLS

Languages: Python, C++,
Javascript

Deep Learning: PyTorch,
TensorFlow, OpenCV, PyTorch3D,
Open3D

Data: SQL, NoSQL, Elasticsearch,
GraphQL, vector databases

Machine Learning: scikit-learn,
NumPy, SciPy, Pandas.

IaaS/DevOps/MLOps: Cloud
platforms (AWS, MS Azure), Docker,
Kubernetes, AWS SageMaker,
KubeFlow, Jenkins.

Data Visualization: Matplotlib,
Seaborn, Plotly, Tableau

AI/ML Research Interests: GenAI,
diffusion models, computer vision,
NLP/LLM, 3D modeling, speech
recognition

Blockchain: Solidity, web3.js,
GraphQL, Hardhat, IPFS.

Web Programming: Nodejs, React,
HTML, CSS

PROFESSIONAL DEVELOPMENT

Machine Learning
Stanford University
CA, 03.2016 - 09.2016

Front-end Development Course
GoIT
Ukraine, 02.2016 - 06.2016

IOD, USA — Senior Tech Content Creator

04.2018 - 07.2020

- authored over 20 tech articles and tutorials on AI/ML algorithms, ML libraries (Tensorflow, PyTorch), and MLOps.
- developed detailed outlines for freelance writers and edited their content.
- contributed to the production of e-books, video content, and tech courses, resulting in a 25% increase in user engagement.

PROJECTS

Finetuning LLama2 LLM — 03.2024

Fine-tuned Llama2 language model on a 1000-sample subset of the Dolly 15k instruction dataset using Supervised Fine-Tuning (SFT) with QLoRA 4-bit precision.

[Github](#)

[Finetuned model on HuggingFace Dataset](#)

Blockchain Data Statistical Analysis — 05.2023 - 03.2024

The objective of the project was to extract and analyze blockchain data from Graph nodes to uncover meaningful insights and trends.

As part of the project, I extracted blockchain data from Graph nodes, performed data wrangling and feature engineering, and applied various statistical methods and models on data (see the latest job).

Statistical analysis of chess tournaments — 01.2024 - 02.2024

As part of this project, I created a dataset of chess games played in "Titled Tuesday" events on chess.com between July 2022 and December 2023 and executed various statistical analyses on it. I managed to find some interesting patterns in online chess tournaments related to player's ELO, current tournament standings, possibility of achieving top rank, etc.

See more: [Repo](#).

GitCoin Grant Project: Deep NFTs — 03.2021 - 06.2021

This project aimed at enhancing the use of generative Machine Learning (ML) models for blockchain NFTs. By leveraging a style transfer model, the designed application can fuse several NFT styles and mint new NFTs with custom parameters derived from the ML model.

[Project Demo Website](#)

EDUCATION

Donetsk National University,
Ukraine — *PhD in International Relations / Political Science*
09.2007 - 06.2010

Donetsk National University of Economics and Trade,
Ukraine — *Master in Finance*
09.2006 - 07.2008

LANGUAGES

- Russian, native
- Ukrainian, fluent
- English, fluent
- Spanish, professional