Vadim Velicodnii

Tech Lead · Machine Learning Engineer · DevOps · Full-Stack Developer

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Experience

Senior Machine Learning Engineer — London, UK

Snap — Oct 2018 — *Present*

- Tech lead and key developer of Snap AI (formerly SnapML Kit), a no/low-code web application for creating ML-powered lenses and 3D resources.
- One of the authors of the app idea and novel DL model used for creating viral ML lenses that boosted user engagement and financial metrics.
- GenAI Suite backed by Snap AI became a main Lens Studio feature announced during Snap Partner Summit 2024.
- Built comprehensive ML infrastructure including pipelines, data lakes, tools, CUDA kernels, libraries, and integrations for efficient lens development.
- Cross-team collaboration with ML teams, Snap infrastructure, lens designers, Lens Studio developers, monetization, security, privacy and legal.
- Established development processes, prepared technical documentation, and mentored team members while introducing best practices.
- Worked on deep learning technologies behind Snap's first ML lenses, preparing crucial datasets for ML training pipelines.

Tech stack: Python, FastAPI, PostgreSQL, Temporal, Kubernetes, Terraform, Google Cloud, TypeScript, React, PyTorch, CUDA, C++, Rust, GLSL

Senior Machine Learning Specialist — Remote

Teleport Future Technologies — Oct 2016 — Apr 2018

- Research and development in deep learning and computer vision.
- Novel deep learning architecture for real-time on-device segmentation.
- Realistic colorization.
- Developed GUI tools for the designers and developers.
- Developed a deep learning framwork for fast iteration over model designs.
- Developed a web platform for partners to test the models on the server side.
- Developed a demo Android app.

Tech stack: Python, TensorFlow, Qt, AWS, GLSL, Android, Java, CUDA

Senior Lecturer — Tiraspol, Moldova

Shevchenko Transnistria State University — Sep 2006 — Sep 2018

- Gave lectures on software development and design, algorithms, machine learning, systems programming, numerical analysis, CFD, etc.
- Supervised 10+ diploma theses.
- Won the Presidential Award "Best Young University Lecturer".
- Research and development in computational fluid dynamics, deep learning, evolutionary algorithms.

Education

Applied Mathematics and Computer Science — Sep 2001 — Jul 2006

Shevchenko Transnistria State University

- Specialist (equivalent to MSc) degree — *with honor*
- GPA: 4.9/5

Patents

- Deep feature generative adversarial neural networks (US11120526B1)
- Automated augmented reality experience creation system (WO2023230064A1)
- Protecting image features in stylized representations of a source image (WO2023129391A1)
- Interacting with visual codes within messaging system (US20240281121A1)

Languages

- English (CEFR C2)
- Russian (native)