

# ARTEMII MIASOEDOV

Innopolis, Russia

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## MACHINE LEARNING / COMPUTER SCIENCE ENGINEER

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An IT-savvy enthusiast, with 7 years of experience, who strives to adopt Machine Learning and Computer Vision to bring innovation to life. Possess leadership qualities, able to guide a team. Experienced in various programming languages, such as: C, C++, Java, Kotlin and others. Mastered and applied in practice different computer graphics and machine learning tools.

*Machine Learning / Computer Vision / IT Solutions / Team Leadership / Tutorship*

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### Experience

**MACHINE LEARNING ENGINEER**, Universal Cloud Systems Ltd., Kazan, Russia **2023 – 2025**

Reworked an existing legacy ANPR system, migrating from YOLO-v3 to D-FINE neural network. Fine-tuned the model using dataset of 2,000 manually annotated and 100k+ unlabeled images via Semi-Supervised Learning strategy. Increased the confidence of the dirty number plates recognition from ~30% to ~80-90%.

**LINUX ADMINISTRATOR**, Universal Cloud Systems Ltd., Kazan, Russia **2023**

Administered up to 3 production Gentoo servers. Managed Gentoo Portage package system. Configured and built Linux 6.x kernels and components, including proprietary CUDA drivers. Built various Machine Learning development and deployment software, such as Caffe2, PyTorch, ONNX, ONNX Runtime.

**TELEGRAM CONTESTS PARTICIPANT**, International **2021 – 2023**

Developed Computer Vision, Machine Learning, and Android Application solutions for Telegram.

- \$2000 – real-time face augmentation <https://contest.com/cpp2022/entry4100>
- \$1000 – official app improvements <https://contest.com/android-nov2021/entry4002>
- \$750 – code language classification <https://contest.com/ml2023/entry4650>

**COMPUTER VISION DEVELOPER**, Itech inc., Uzbekistan **2023**

Successfully led a team, developed signature and stamp recognition tool and API.

- <https://github.com/ATMI/Signex>

**ANDROID DEVELOPER**, Freelance **2019 – Present**

Started career in developing Android applications using Java and Kotlin. Gained 10,000+ downloads of self-made applications in the Google Play Store with average rating 4+ stars.

**WORLDSKILLS & DIGITAL SKILLS PARTICIPANT**, Russia **2018 – 2022**

Took several prizes as Junior and Senior participant in IT Software Solutions for Business competence. Judged in Digital Skills 2022 Mobile Development competence.

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### Projects

**IFOND**, Android **2020 – 2025**

Android application that allows users to change wallpapers on schedule using photos and videos from their gallery. 10,000+ downloads on Google Play with rating of 4.26/5 stars.

Developed a user interface with Kotlin and Jetpack Compose, managed the database using Room, and handled rendering with JNI, C++, and OpenGL ES.

- <https://play.google.com/store/apps/details?id=su.mya.wallpaper>

**CGLM**, C, contribution for OSS

2025

Added support for 2D affine post-transformations in an open-source 2D/3D math library.

- <https://github.com/recp/cglm>

**A-SHOT**, Kotlin, C++

2024

Led a team in developing a user-friendly, cross-platform tool to streamline the photo culling process for photographers. Designed the UI using Jetpack Compose Multiplatform, configured ONNX Runtime for blur detection and similarity scoring models inference, and utilized C++ along with ImageMagick for efficient graphics handling.

- <https://capstone.innopolis.university/docs/2024/a-shot/week06/>
- <https://github.com/IU-Capstone-Project-2024/A-Shot>

**SOSNA**, Reinforcement Learning, Unity 3D

2024

Developed a multi-agent environment using Unity 3D and trained two agents to research collision avoidance behavior.

- <https://github.com/ATMI/Sosna/blob/master/Assets/Report/Report.pdf>

**XCHANGE**, Kotlin, Ktor, PostgreSQL

2024

Developed a simple open ledger currency exchange system with in-database transaction verification for a fin-tech course. Designed a PostgreSQL database to store transactions and implemented record verification using the ED25519 algorithm. Created a simple Ktor API and TUI client for interacting with the database.

- <https://github.com/ATMI/Xchange>

**OSMAND**, Android, contribution for OSS

2020

Participated in the open-source, community developed navigation and cartography project. Enhanced AIDL interface for plug-in development.

- <https://github.com/osmandapp/OsmAnd>

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## Skills & Knowledge

### PROGRAMMING LANGUAGES

- C, C++
- Java, Kotlin
- Python
- Rust

### TECHNOLOGIES

- PyTorch
- Jetpack Compose
- OpenGL
- Linux
- ONNX Runtime
- Room, SQLite
- Vulkan
- Git
- OpenCV
- PostgreSQL
- Unity 3D
- Secure shells

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## Education

**INNOPOLIS UNIVERSITY**, Innopolis, RT

2022 – 2026

**BEIJING INSTITUTE OF TECHNOLOGY**, Beijing, China

2024