

SKILLS

- **Languages:** C++, C, Python, C#
- **Deep Learning frameworks:** PyTorch, TensorFlow, Keras
- **Libraries/Technologies:** NumPy/SciPy, Sklearn, Pandas, OpenCV, Unity, C++ Boost, MapReduce
- **Tools:** Git, Docker, GDB, Valgrind, L^AT_EX, CMake, Deployment Pipelines (CI/CD), UNIX/Linux, Windows Server

EXPERIENCE

- **Software Engineer at Samsung Research** *Feb 2023 – present • 2yr 5 mo*
Warsaw, Poland
 - Visual Display team
 - **Glasses-free 3D monitor** Python OpenCV Unity C++ CMake
 - Developed a **mathematical model** related to human perception of stereoscopy
 - **Experimental verification** of the model using methods from **computer vision** and **computational photography**
 - **Progress in the research** led to **start of a new project**
 - Developed a proof of concept application in Unity using the model
 - **Leading development** in a team of two people, planning tasks
 - **Sign Language Avatar**: an animated helper for deaf people C++ GDB Valgrind Tizen
 - **Leading development** of the project, **communicating** needs and priorities with management
 - Working on **simplification** of the project architecture
 - Writing full project documentation for a **successful ownership transfer**
- **Software Development Engineer at Amazon** *Aug 2021 – Aug 2022 • 1yr*
Gdańsk, Poland
 - Alexa TextToSpeech C++ C Python Deployment Pipelines (CI/CD)
 - Working on **Language Models** for Speech Synthesis
 - **Reduced latency** of a homograph disambiguation model by **56%**

PROJECTS

- **BigARTM** C++ Boost Protobuf Travis CI AppVeyor *Jan 2017 – Jun 2018*
Open Source library for topic modeling
Developed a tool for parallel calculation of pairwise word statistics ([code sample](#), [documentation](#))

EDUCATION

- **Master of Science in Applied Mathematics and Computer Science** at **Higher School of Economics : Faculty of Computer Science** *Sep 2019 – Jun 2021*
Diploma with Honors, GPA 3.90 / 4.0