

## SKILLS

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- **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<sup>A</sup>T<sub>E</sub>X, CMake, Deployment Pipelines (CI/CD), UNIX/Linux, Windows Server

## EXPERIENCE

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- **Software Engineer at Samsung Research** *Feb 2023 – present • 2yr 3 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**
    - 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

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- **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

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