

## 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,  $\text{\LaTeX}$ , CMake, Deployment Pipelines (CI/CD), UNIX/Linux, Windows Server

## EXPERIENCE

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- **Software Engineer at [Samsung Research](#)** *Feb 2023 – present • 2yr 1 mo*  
**Visual Display team** *Warsaw, Poland*
  - **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*  
**Alexa TextToSpeech** C++ C Python Deployment Pipelines (CI/CD) *Gdańsk, Poland*
  - 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 [Higher School of Economics : Faculty of Computer Science](#)** *Sep 2019 – Jun 2021*  
**Diploma with Honors, GPA 3.90 / 4.0**