

MLADEN BAŠIĆ

EXPERIENCE

Machine Learning Team Lead

SignAvatar

📅 Jul 2023 – present

- Was in charge of developing and deploying application that generates train service information for the hearing impaired
- Developed machine learning models for machine translation from english to American Sign Language based on state-of-the-art research papers
- Developed and maintained microservice cluster with external API for translating multilingual speech to singlanguage in real-time

Microservice

Speech Recognition

Speech Translation

Unreal Engine

Software Engineer

ydrive

📅 Jan 2023 – Mar 2023

- Implemented High Quality Shader that improved performance of neural rendering pipeline
- Implemented shaders that improved training time of neural rendering model
- Deployed shaders for use in Unreal Engine application

Cuda

OpenGL

Neural Rendering

Machine Learning Engineer

adout.ai

📅 Mar 2023 – Jun 2023

- Designed prompts for both ChatGPT and MidJourney in order to automatically generate ads for customers business
- Developed post processing pipelines for improvement of human faces generated by MidJourney
- Used state-of-the-art image generation models to put customers product into AI generated background

Image processing

MidJourney

ChatGPT

Machine Learning Engineer

Microsoft Development Center Serbia

📅 Oct 2021 – Mar 2022

- Worked on a model for premium feature upselling based on user actions in Word Online
- Collaborated with software engineering team on feature extraction and model deployment
- Wrote queries for big data parsing from a preexisting database

Sequence Classification

Kusto Query

Microsoft Office

Software Engineer

Microsoft Development Center Serbia

📅 Feb 2021 – May 2021

- Improved camera head position estimation software by implementing a complementary filter on head tracking system from HoloLens2 and Azure Kinect's head localization software
- Developed software pipeline for synthetic camera calibration, testing and 3D pose estimation
- Ran experiments using real-world calibration data and tested quality of intrinsic calibration after an airplane travel simulation

Camera Calibration

Mixed Reality

📍 Belgrade, Serbia
✉ mladenbasic99@gmail.com
🐙 github.com/basicskill
🌐 linkedin.com/in/basic-mladen

EDUCATION

B.Sc. in Electrical Engineering and Computer science

University of Belgrade

📅 2018 – 2022

EDUCATIONAL WORK

Senior Associate and Lecturer

pfe.rs

📅 2018 – present

- Held lectures in Linear Algebra, Image Processing and Natural Language Processing
- Held workshops in Physics Simulation, Digital Signal Processing, Natural Language Processing and Machine Learning
- Supervised project: *Hybrid Model for Sentence Completion and Bug Physics Simulation*
- Supervised project: *Teaching a bee to fly using genetic algorithm inside custo physics simulation*
- Supervised project: *Automatical license plate registration*

Undergrad Teaching Assistant

University of Belgrade

📅 2020

- Homework and final project grading
- Conducting oral examinations

Member of ETF Robotics group

Renesas MCU Rally Faculty team

📅 2019

- Developed physics simulation of model vehicle with noisy sensors and localization
- DC motor testing and attribute measuring

SMALLER PROJECTS AND HACKATHONS

- SUMA MATF Hackathon: Pollution Prediction
- TUM-JA Hackathon: Crowdedness of Public Transport
- Word Recognition from Gyroscope Signals (MATLAB)
- Digital Circuit Simulator (C++)
- DataFlow Equation solver (C++)