

Milos Vukadinovic

 |  milos_ai |  vukadinovic936 |  milos

EDUCATION

PhD in Bioengineering, focus: ML in Medicine | GPA: 3.76/4.00 Expected Graduation: June 2026
University of California, Los Angeles

Bachelor's in Computer Science & Mathematics (Double Major) | GPA: 3.95/4.00 August 2018 – May 2022
American University in Bulgaria, ISEP exchange at Carroll College Blagoevgrad, Bulgaria ; Helena, USA

EXPERIENCE

Cedars-Sinai, Biomedical Research Institute June 2023 -
Visiting Graduate Student Los Angeles, CA

- Researching AI applications in healthcare using cardiology data: echocardiograms, MRI, ECGs, and related modalities.

Cedars-Sinai, Smidt Heart Institute May 2021 – September 2021;
Research Intern Los Angeles, CA

- Inspected deep learning derived phenotype, [LV sphericity index](#), and conducted GWAS to identify associated genes

Ablera May 2020 – December 2020
Software Developer in Computer Vision Team Sofia, Bulgaria

- Fine-tuned and deployed machine learning models (DeepLab, CycleGAN) using PyTorch, Docker and Ms Azure
- Created a microservice for generating PDF files for policies, using .NET

American University in Bulgaria October 2018 – December 2021
Teaching Assistant Blagoevgrad, Bulgaria

- TA in: C++ (Fall 2018, Spring 2019), Calculus I (Fall 2019), Fundamental Data Structures (Fall 2019, Spring 2020, Fall 2020), Finite Mathematics (Fall 2019, Fall 2021)
- Held tutorial lectures and one-on-one sessions for the classes of ≈ 30 students

Slippers Studio January 2018 – November 2018
Software Developer Intern Belgrade, Serbia

- Developed educational game [Freeze](#) that helps primary school students learn about conservation of matter.
- Responsible for developing and maintaining multiple mobile games and websites; worked in C#, Unity, PHP and Yii

PROJECTS

Zeno - The lossless compressor

- A CLI Linux tool for compressing text files using Huffman and Arithmetic coding

Reproduction of Slot Attention

- My work was accepted as a poster presentation for [Easter European Machine Learning Summer school](#)

Brain Reg

- An automated approach for the localization of intraoperative ECoG electrodes in 3D from brain CT and MRI

CSV Assistant

- CSV Assistant is conversational agent that lets you pose data science queries in natural language, train machine learning models, and create plots.

Neural Network from scratch in Julia

Hackathon Projects: [Chroma](#), [UpSave](#), [LookLabs](#)

- I participated in [Global Game Jam](#) (2018), [HackAUBG](#) (2022) and selective participation [ScaleAI's Generative AI hackathon](#) (2023). My team won second place with UpSave android app.

Honors & Awards

Awarded "Best Student of the Generation" in the Mathematics major at AUBG

American University In Bulgaria

May 2022

Blagoevgrad, Bulgaria

Honorable Mention

ICPC - International Programming Competition

October 2022

Blagoevgrad, Bulgaria

Silver medal

MUC - National Programming Competition

April 2020

Sofia, Bulgaria

Honorable Mention

COMAP - International Math Modelling Competition

February 2021

Helena, Montana

Bronze Medal

CompMath - National Computational Mathematics Competition

October 2019

Sofia, Bulgaria

First place

RAF Challenge - National game development competition

March 2017

Belgrade, Serbia

SKILLS

Programming Languages : C++, Python, Java, R, Julia, C#, SQL, MATLAB, Bash

Libraries : PyTorch, TensorFlow, Keras, .NET, Flask, Spring, Docker

Languages : Serbian (native), English (fluent)

Leadership

President of the Mathematics Club - Polygon

- * Responsible for planning and organizing Math competitions, talks, and workshops
- * Scaled the club from 7 to 28 members