

Education

Bachelor's in Computer Science
University of California, Los Angeles

Los Angeles, USA
Sep 2022–Expected Jul 2026

IB Diploma Program
American School of Warsaw

Warsaw, Poland
Aug 2020–Jul 2022

Achieved Grade: 44/45

HL Subjects: Math Analysis & Approaches, Physics, Economics, Computer Science

Work Experience

University of Warsaw

Warsaw, Poland

Researcher

Sep 2019–Jun 2022

- Participated in graduate-level computer-vision research, presented findings to postdoctoral researchers and faculty.
- Facilitated capstone project and published "Rotation Variance in Graph Convolutional Networks". Awarded the Professor Zdzisław Pawlak Best Paper Award at the 16th Conference on Computer Science and Intelligent Systems.

Hack+Policy Foundation

Warsaw, Poland

Software Development Intern

Jun 2021–Oct 2021

- Developed submission and judging platforms for Merge-X-India event with 100+ participants. Conceived and implemented custom Capture-The-Flag challenge.
- Spearheaded with a team of 6 in developing novel hackathon web platform.

Viettel Cyberspace Center

Hanoi, Vietnam

AI Research Intern

Mar 2021–Aug 2021

- Led team of 3 in developing face mask detection system. Implemented in major hospitals and government offices. Built using C++, ONNX, and TensorRT.
- Optimized and delivered computer-vision based fire detection and alarm system for urban environments.
- Participated in infrastructure development for OCR-based search engine

Notable Research Projects and Presentations

Rotation Variance in Graph Convolutional Networks

Sep 2021

Conducted research project regarding grid-based object localization using graph convolutional networks built with PyTorch. Published and presented in conference, FedCSIS. Publication available on IEEE. Awarded the Best Paper Award.

Wave Function Collapse Coloring

Aug 2021

Conducted and led research project regarding heuristic graph coloring using niche Wave Function algorithm. Pre-print available on arXiv.

Object Detection in Road Damage Localization

Dec 2020

Led an investigation into road damage detection built using Tensorflow. Presented results to faculty and post-doctorate researchers at the University of Warsaw.

Low Resolution Logo Detection

Mar 2020

Participated in a research project built upon PyTorch regarding low resolution logo detection. Presented the results of the project in a seminar for industry and academic researchers. Project was then adopted at a pharmaceutical distribution company.

Artificial Intelligence in Web Environments

Nov 2019

Presented a seminar on state-of-the-art applications of AI on the web at the 4th RSVP in the University of Warsaw. Implemented computer-vision models using Tensorflow.js and hosted Heroku.

Skills

Python (PyTorch, Tensorflow); C++; Javascript (React, Vue, Expo Go, Node.js); Machine Learning Frameworks (ONNX, TensorRT); Git