KEMAL ERDEM

kemal.p.erdem@gmail.com

github.com/burnpiro ◇ www.erdem.pl ◇ linkedin.com/in/kemal-erdem-74837580

WORK EXPERIENCE

ZhivaAI, Poland *- Co-Founder/CTO*   *September 2021 - February 2023*
· Enabling **clinical deployment** of **AI** models for **medical imaging in radiology** with a few lines of code.
· Implementing DICOM viewer with **3D segmentation inference** (DICOM-SEG). Optimizing WebGL performance.
· Designing **distributed system architecture** including medical PACS and model inference containers.

Sargent-Disc Ltd, **United Kingdom** *- Lead Frontend Engineer*   *September 2015 - July 2019*
· Lead the team of developers in developing scalable, multinational application for managing film crews called Digital Production Office. This application is used by companies like Disney, HBO & Netflix.
· Created a proprietary Excel-like language to integrate and process documents according to government regulations.
· Designed an ETL process to consolidate data from diverse sources leveraging statistical techniques to filter and extract relevant information.

Xebia, **Poland** *- Full Stack Developer*   *January 2013 - September 2015*
· Developed a gym management software solution for Membr, which led to the acquisition of our team by Membr.
· This system included payment processing, gym scheduling, and gathering data from physical smart gym equipment.

ACHIEVEMENTS & PROJECTS

UA Support - Refuge accommodation and aid application. Application organized the work of volunteers and helped provide accommodation for refugees during the initial part of the war in Ukraine. Featured in European Commission OSO (article) and was recommended by the Polish government on the official government website. Acquired by AirBnB in May of 2022.

Puppeteer Screenshot Tester - Library that helps with visual regression testing. It uses the headless browser API to generate snapshots of the UI and compare what changed between different versions. The library has been **downloaded over 300k times**. [npm repository]

FAT (Farm Animal Tracking) - Tracking and recognition of farm animals with the use of Siamese Network. The project was done with the help of the University of Nebraska. We've created a tracking algorithm using Siamese Network to detect and track individual animals across different camera views and lightning conditions (day/night). GitHub repository

DengAI: Predicting Disease Spread - DrivenData competition for predicting the spread of dengue disease with data provided by CDC and NOAA. Scored **15th place out of over 12,000 competitors**. Blogpost wih a summary

V8 engine improvements - Collaboration with **Google's V8** team in Munich on *JSON.parse* performance for large JSON files. My team at Sargent-Disc and I found an issue and provided a benchmark for large structure parsing. V8 v7.6 release description

EDUCATION

Wroclaw University of Science and Technology, MSc in Computer Science   *March 2020 - June 2021*
A*, 2nd best student (3.79 GPA, finished with Honours)
MS thesis on Attribution Methods in Interpretability of CNNs

SKILLS

Experience with	Project Management, Dev/ML Ops, FullStack Development, Medical data processing, PACS, CNNs/UNets, SQL and NoSQL databases, Large scale systems, Designing APIs
Tech Tools	TypeScript, PyTorch, Tensorflow, ONNX, OpenCV, FastAPI, Git, Docker, React, CornerstoneJS, MongoDB, MySQL, NodeJS, Firebase, Azure/GCP
Languages	English full professional proficiency, Polish Native
Interests	Ultra-distance cycling, Experimental physics, Amateur pyrotechnics, Economics