

Marko Pranjić

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Summary



Ten years of programming experience in Python. Currently working as a data scientist with a focus on research and application of NLP in journalism and news publishing.

Education



Ongoing postgraduate study (PhD)
Jožef Stefan International Postgraduate School, 2019 –
Information and Communication Technologies

Graduate study (MSc)
University of Zagreb, Faculty of Electrical Engineering and Computing, 2008 – 2010
Computer science - Computer vision

Undergraduate study (BSc)
University of Zagreb, Faculty of Electrical Engineering and Computing, 2005 – 2008

Skills



Strong in **Python, Git, PyTorch, NumPy**
Experience with **Sklearn, OpenCV, Tensorflow**

Creative problem solver, active listener, good empathetic skills, displays initiative and motivates others when leading.

Work Experience



Trikoder, Croatia, 2019 – present

Senior Data Scientist

Trikoder is a technology provider under the Styria Media Group AG. Focus of my team is on the NLP and Computer Vision projects for the classifieds industry and news publishers.

Styria Media Services, Croatia, 2018 – 2019

Data Scientist

As part of the data science oriented team, provided support for the products of the Styria Media Group. The whole team was later moved to Trikoder d.o.o.

AVL-AST, Croatia, 2010 – 2018

Software Engineer

AVL is an engineering company for development of powertrain systems. AST department works on development of software for simulation and modelling of internal combustion engines.

Damco, Croatia, 2010

Software Engineer

Damco was a company developing custom automated optical inspection machines using computer vision and machine learning algorithms.

Projects



The EMBEDDIA project **Trikoder, 2019 – present**

The EMBEDDIA is a Horizon 2020 research project that seeks to address the European multilinguality challenges by leveraging innovations in the use of cross-lingual embeddings coupled with deep neural networks.

Google Digital News Initiative, 24sata personalization **Trikoder, 2018 – 2020**

This project is a partnership between Google and publishers to support journalism through technology and innovation. As part of the team, I work on research and development of NLP models for news article personalized recommendations and keyword analysis and detection.

Simulation Desktop Framework **AVL-AST, 2010 – 2018**

As part of the small agile team, I was developing a scalable, cross-platform framework for multiphysics modeling of internal combustion engines. This framework one of the main strategic projects of the AVL-AST. I also provided counsel to other developers regarding software architecture and design.

ACT Library **AVL – AST, 2011 – 2018**

An in-house library used as a base for the framework. The library extends Python's type system with additional features like type checking and event dispatch mechanism. I was also tasked with communication with the team from Vrviz institute in Vienna for joint development of graph visualization parts of the library.

Optical inspection of tax stamps **Damco, 2010**

Goal of the project was to verify serial numbers and integrity of the security holographic foil on the tax stamps in the printing office. Application kept the record of all detected defects and enabled creation of various reports.

OCR on letter covers **Damco, 2010**

As part of the team, I was responsible for implementing several optical character recognition algorithms in order to create a system that corrected mistakes made by the folder inserters in the automatic mailing system.

System for Content Based Image Retrieval **M.Sc. Thesis, 2010**

As part of the thesis, I created an application for content based image retrieval from the template image. Features included color, edge and texture information and genetic algorithm determined the best combination of those based on the relevance feedback.

Road Sign Detection in Video Sequences **B.Sc. Thesis, 2008**

I have implemented a video player that marks all road signs during playback. Detection algorithm used Viola-Jones feature set. Additionally, tool for manual marking of road signs in video sequences was developed to build a base for machine learning algorithm.