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### About me:

Marijan Smetko, 24, student of FER, University of Zagreb, Croatia.

My primary interests are machine (and deep) learning and computer vision. Other interests include: physics, math (especially statistics), chemistry, chaos theory, and quantum computing.

I'm also deeply married to the idea of computers as tools for automating redundant tasks, so I write a lot of Python and bash scripts.

# Marijan Smetko

## Computer Vision Engineer Intern

Faculty of Electrical Engineering and Computing (FER), University of Zagreb

## Experience

### July 2020 - present, *Computer vision intern, RealNetworks*

- Developed a SOTA pipeline for computer vision model quantization for Google Coral TPU devices
- Explored Huawei Atlas 800 TPU server
- Collected dataset and trained a model for face anti-spoofing

### Apr 2018 - Sep 2019, *Machine learning intern, Styria.AI*

- Designed and implemented a request authorization service
- Designed and implemented a visual similarity model demo GUI
- Researched production model serving options for PyTorch
- Statistical analysis of various deployed models
  - Improved performance by more than 10 points

### Sep 2018 - Feb 2019, *Team leader, FER*

- Managed a team of 6 students for *Software design* class project
- SPA for recipe creation and sharing, with recipes as DAGs
- Responsibilities: backend, deployment, and student coordination

## Education

### 2016 - 2019, BSc in Computer Science, FER

- Thesis: *Visualization of class activation maps for image classification*
- Relevant courses: *Artificial intelligence, Software design, OOP in Java, Design patterns, Statistical data analysis*

### 2019 - 2021, MSc in Computer Science, FER

- Thesis: *Incremental open-set recognition for semantic segmentation*
- Relevant courses: *Computer vision, Machine learning, Deep learning, Competitive programming, Digital image processing and analysis*

## Software Development Skills

- |           |             |          |                |
|-----------|-------------|----------|----------------|
| ○ Python3 | ○ bash      | ○ Linux  | ○ git          |
| ○ C       | ○ C++       | ○ Docker | ○ SQL          |
| ○ NumPy   | ○ PyTorch   | ○ SciPy  | ○ scikit-learn |
| ○ pandas  | ○ Gitlab CI |          |                |

## Achievements

### 2016, *Matura exam*

Achieved 100% in Math and Information Science, and 98% in Physics

## Interests

### Professional

Data analysis, Computer vision, Machine learning, DevOps, Team leading, Project managing

### Personal

Piano, Math, Physics, Chemistry, Chaos theory, Quantum computing, Stock market investing