

DAVID MATOS

Data Science/Analytics

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Personal Website in David Matos David Matos



PROFESSIONAL EXPERIENCE

Cloud/AI Software Engineer

Track32

09/2021 - Present Ede, Netherlands

- Lead developer for cloud integration of various AI deep learning pipelines
- Single developer of Qt App for instance segmentation pipeline and object analysis
- Single developer of Qt App for object detection and object color analysis

Deep Learning Intern

ViNotion

09/2019 - 12/2019 Eindhoven, Netherlands

- Research impact of obfuscating license plates on the effectiveness of object detection accuracy
- Implement Mask-RCNN and SSD networks object detectors to enable multiple experiments

SKILLS

Proficient with

Python AWS Docker
SQL Qt FastAPI Rust
Git PyTorch ROS

Familiar with

C++ C

EDUCATION

M.Sc. Automotive Technology

Eindhoven University of Technology

09/2018 - 10/2020 Eindhoven, Netherlands

Relevant coursework

- Convolutional Neural Networks for Computer Vision
- Machine Learning for Signal Processing
- Advanced Sensing using Deep Learning

B.Sc. Mechanical Engineering

Florida Institute of Technology

09/2012 - 09/2016 Florida, United States

ACADEMIC ACHIEVEMENTS

Finished my Bachelors Magna Cum Laude with GPA 3.89/4.00

Awarded Full Scholarship to perform Bachelors in United States

PROJECTS

Website for NL organization

- Develop backend/frontend for the website
- Support member authentication to download private organization files

Rust, KeyPass, Yew, AWS

Nushell OSS Contribution

- Port several Rust 'utils' commands from nushell built-ins to use 'utils', primarily 'cp' and 'mv'
- Several Bug fixes to the various shell's commands

Rust

PyO3 OSS Contribution

- Add support for 'Decimal' interoperability between Python and Rust
- Add support for 'uv' backend as alternative to 'pip' for 'venv' installation
- Small doc changes to their documentation

Rust

Utils OSS Contribution

- Make public interface for 'utils' commands to be accessible within nushell
- Various bug fixes to several 'utils' commands

Rust

Pointcloud detections with ROS

- Implement a SoA object detector in the KITTI dataset with ROS.
- Detections visualized in LiDAR and camera space using RVIZ.

PyTorch, Python, ROS, Git

Kitti data to Bag tool

- Tool to convert raw data from the automotive KITTI dataset to a ROS bag, using the ROS Point Cloud Library.

C++, ROS, Git

LANGUAGES

English

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Spanish

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Dutch

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