

SOFTWARE ENGINEER

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Skills

Programming Python (expert), Bash (proficient), GO (intermediate), C (intermediate), TS/JS (intermediate), Rust (beginner).

Python Lib PyTorch, Numpy, Pandas, Scikit Learn, Matplotlib, xarray, SciPy.

Misc Linux (expert), Docker (proficient), SQL (proficient), Git (proficient), Airflow (inter.), Kubernetes (beginner).

Languages English (professional working proficiency), Italian (native), French (basic).

Work Experience

Software Engineer Paris, Ile-de-France, France

Datadog - Synthetics events Sep 2023 – Curr

Software Engineer Intern

DATADOG - SYNTHETICS EVENTS

Migrated an internal partial frame until out to unit any fact the internation with a Martin alustra

• Migrated an internal service from python to golang for the interaction with a Kafka cluster.

Worked following AGILE guidelines for development and deployment.

Machine Learning Engineer

Trento, Italy

Mar 2023 - Sep 2023

Paris, Ile-de-France, France

Bruno Kessler Fundation (DSIP)

Jan 2021 – Dec 2022

Built a tool for the abstraction of the usage of containerization for the lifecycle of a DL model inside SLURM environments.
 Developed hyper-resolution (300m to 10m) deep convolutional networks for Sentinel-2 UAV images.

Started experiencing with Kubernetes and other SOTA tools for DevOps and MLOps world.

• Tested a set of methods for estimation of grapes harvesting metrics: LSTM, GRU, genetic optimizations of parameters.

• Been a team leader of a team-based project interacting with stakeholders using an AGILE approach.

Machine Learning Engineer

Trento, Italy

BRUNO KESSLER FUNDATION (MPBA)

Jan 2020 – Jan 2021

- Deployed a production pipeline of ~ 80 docker containers with Apache Airflow for predictions in the field of agriculture.
- Devised time-series regressor with Recurrent and Convolutional Neural Networks for estimation of ripening of a plant.
- Designed solutions for the integration of georeferenced data using GDAL/GIS suite.
- Conceived a multi-layer and resolution python library based on Zarr compression for georeferenced data.

Education

Master's degree in Artificial Intelligence Systems - Computer Vision path

Trento, Ital

University of Trento

Sep 2021 – Exp: Sep 2023

• Relevant courses: Machine Learning, Deep Learning, Computer Vision, Fundamentals of AI, Bio-Inspired Artificial Intelligence.

Bachelor's degree in Computer Science

Sep 2018 – Jul 2021

University of Trento

• Grade: 110/110. GPA: 4.0.

• Relevant courses: Algorithms and Data Structures, Operative Systems, Probability and Statistics, Databases, Calculus.

Projects

Camera Pose Estimation 2

ML, DL, COLMAP, Python

TEAM LEADER

- Proposed a dataset generation pipeline through structure from motion techniques: mapped an entire floor of $700m^2$.
- Implemented deep learning models for absolute and relative pose estimation with mean absolute error of 1.3m.
- Created a FastAPI application to deploy the final model on a Bootstrap Vanilla JS frontend.

Eating Planner for Organized Creature

TypeScript, FoalTS, MongoDB, CI, CD

TEAM LEADER

- \bullet Developed a Node.js FoalTS REST API to arrange a meal planner based on user preferences using a MongoDB storage with more than 5000 recipes.
- Designed a responsive Bootstrap Web App to interact with the REST API.
- Implemented a pipeline for continuous integration (Travis CI and GitHub Actions) and continuous deployment (Heroku).