SOFTWARE AND ALENGINEER

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Experience

OptiverAmsterdam, Netherlands

SOFTWARE ENGINEER

August 2023 - Current

- Developing and optimizing high-performance, low-latency C++ and Python systems for mission-critical financial applications.
- Collaborating with multidisciplinary teams to implement scalable, efficient software solutions in latency-sensitive environments.

Mercedes-Benz (Al-SEE Project)

Stuttgart, Germany

AI RESEARCH INTERN AND MASTER THESIS STUDENT

May 2022 - June 2023

- · Conducted cutting-edge research on 3D human avatar modeling from monocular video data in diverse real-world environments.
- Designed and implemented generative neural models, including NeRFs and Diffusion Models, to improve computer vision performance in adverse weather conditions.
- Collaborated with a cross-functional R&D team to refine innovative ideas, resulting in a publication at ICCV (International Conference on Computer Vision).
- Leveraged skills in deep learning, 3D modeling, and generative AI to push the boundaries of digital character creation and visualization.

Education

KTH Royal Institute of Technology

Stockholm, Sweden

MSc. in ICT Innovation, Data Science

Sept. 2020 - May 2023

- · Final grade: A Excellent
- Implemented from scratch a diverse range of neural network architectures in NumPy, including MLPs, Hopfield Networks, and Deep Belief Networks.

Polytechnic University of Milan Python and Java.

Milan, Italy

MSc. IN COMPUTER SCIENCE AND ENGINEERING

Sept. 2020 - Jul. 2023

- Final grade: 110/110 cum laude
- Developed a winning ML solution on the Twitter dataset for the international RecSys Challenge 2021 with the university team under the supervision of prof. Paolo Cremonesi with Dask, Catboost, and XGBoost.

Polytechnic University of Milan book catalogue with NumPy, SciPy, and Pandas.

Milan, Italy

BSc. IN ENGINEERING OF COMPUTING SYSTEMS

Sept. 2017 - Jul. 2020

- Final grade: 109/110
- Implemented a cardboard game in Java, performing extensive testing with JUnit and Mockito.
- Created a performance oriented graph manipulation tool in C.

Publications

ScatterNeRF: Seeing Through Fog with Physically-Based Inverse Neural Renderings, Ramazzina
Andrea, Bijelic Mario, Walz Stefanie, Sanvito Alessandro, Scheuble Dominik, Heide Felix

United We Stand, Divided We Fall: Leveraging Ensembles of Recommenders to Compete with Budget

Constrained Resources, Maldini Pietro, Sanvito Alessandro, Surricchio Mattia

ACM recsys'22

Lightweight and Scalable Model for Tweet Engagements Predictions in a Resource-constrained

2021 **Environment**, Carminati Luca, Lodigiani Giacomo, Maldini Pietro, Meta Samuele, Metaj Stiven, Pisa Arcangelo, Sanvito Alessandro, Surricchio Mattia, Maurera Fernando B. Peréz, Bernardis Cesare, Ferrari Dacrema Maurizio

ACM recsys'21

Skills

Programming Python, C++, SQL, Java, C, LaTeX

Machine Learning Pytorch, Tensorflow, MLlib, scikit-learn, Optuna, Catboost, XGBoost, NumPy, SciPy

Data processing Pandas, Dask, Spark, Spark Streaming, GraphX, MySQL

Visualization Seaborn, Maplotlib, Plotly