

Francesco Bozzo

📍 Milan, Italy ✉ francesco.bozzo.99@gmail.com 🌐 francesco-bozzo-fb 🐙 francescobozzo

Skills

Programming & Markup: Python, Java, Kotlin, TypeScript, C, Bash, SQL, LaTeX

Full Stack Development: React.js, Next.js, Flask, SQLAlchemy, Alembic

Machine Learning & AI: Jupyter, PyTorch, Numpy, Pandas, Scikit-learn, Matplotlib, NetworkX, Streamlit

Technologies & Tools: AWS, REST API, GraphQL, gRPC, Git, Linux, Docker, Slurm, Arduino, Nix

Languages: English (professional working proficiency), Italian (native)

Experience

Software Development Engineer II, Amazon – Milan, Italy July 2025 – present

- Developing a AWS backend service to plan and route container movements in Amazon Warehouses.

Software Development Engineer, Amazon – Milan, Italy Apr 2023 – June 2025

- Contributing the development of a set of AWS backend tools in Java and Kotlin to maximize the building flow for Inbound Cross Dock warehouses, including process path selection and trailer sequencing.
- Developed a Full Stack AWS serverless application to submit and review Amazon Warehouses' station readiness status with around 42000 montly submissions using AWS CDK, Flask, TypeScript, and React.

Software Development Engineer Intern, Amazon – Barcelona, Spain Sept 2022 – Jan 2023

- Designed and implemented a Full Stack AWS Web Service to simplify the onboarding plan definition of Amazon Warehouse's new hires, impacting 700 employees for 2023 EMEA Warehouse launches.

Data Scientist, Bruno Kessler Foundation – Trento, Italy Apr 2021 – Aug 2022

- Developed deep learning models to estimate the remaining useful life of gear motors.
- Implemented 30x hyper-resolution deep learning techniques for Sentinel-2 satellite images.

Education

MSc University of Trento, Artificial Intelligece Systems – Trento, Italy Sept 2021 – Mar 2024

- Grade: 110/110 with honors. Final dissertation: "Evolving Goals and Plans in Autonomous Software Agents: a LLM-based Approach".

BS University of Trento, Computer Science – Trento, Italy Sept 2018 – June 2021

- Grade: 110/110 with honors. Final dissertation: "A Structural Analysis of Wikipedia Talk Pages".

Projects

Distributed Huffman Codec Sept 2022 – Dec 2022

- Led the design and development of a parallel and cluster-distributed Huffman encoding and decoding tool in C by leveraging OpenMP for multithreading and MPI for multiprocessing.
- Analyzed the tool performance against the best online-available open-source alternatives obtaining performance improvements up to 10 times.

A Deep Learning Approach to Camera Pose Estimation Oct 2021 – Jan 2022

- Developed a dataset generation pipeline through structure from motion starting from a video footage.
- Implemented deep learning models for absolute and relative camera pose estimation with mean absolute error of 1.3m on a 700m² surface.
- Implemented a FastAPI Backend to deploy deep learning models on a Bootstrap Vanilla JS Frontend.