# FRANCESCO MASSAFRA

Software Engineer

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📍 Pisa, Italy

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in/francesco-massafra

## EXPERIENCE

**9/2021 - Ongoing**
**Part-time**

**Software Engineer | Web & App Development**                                   **Wylit**

- Developed backends for websites and applications using TypeScript and Python, leveraging a variety of frameworks in these languages.
- Deployed and maintained services using cutting-edge technologies, such as Docker and Kubernetes.
- Created various ad-hoc software solutions for the analysis and management of proprietary enterprise data spanning different business domains.

## EDUCATION

**9/2021 - x/2024**

**BSc in Computer Science | Course list here**                                   **University of Pisa**
GPA: 3.5
Enrolled in advanced computer science courses at the University of Pisa.
**Relevant Courses:** Computer Networks, Cloud computing, Numerical Analysis (MATLAB), OOP (Java), Algorithms and Data Structures (C), Python

**9/2017 - 6/2021**

**High School Diploma, Computer Science Option**                                   **IISS Majorana**
Grade: 100/100

## PROJECTS

Bachelor's Thesis

**Exploiting Machine Learning and Data Analysis to Help Alkaptonuria Patients**          **Thesis, On Going**

- **Clinical Data Analysis:** Currently working with clinical data of AKU patients to engineer a Deep Learning network that aids doctors in determining effective treatments.
- **Technologies Used:** Python, SciKit-learn.

TeleSpace

**Unlimited FileStorage Leveraging Telegram, Based on Rust btw**          **University/Personal Project, On Going**

- **Unlimited Data Storage:** Engineered a system using Telegram to bypass traditional storage limitations, enhancing scalability and accessibility.
- **Split/Merge Algorithm:** Implemented an efficient algorithm for splitting and merging large files, improving system efficiency and user experience.
- **User Interface Development:** Crafted a modern, intuitive user interface to simplify user interactions and file management, using ReactJS.
- **Technologies Used:** Rust, ReactJS, SeaORM, RocketRS.

HOTELIER

**Simplified Hotel Review System**                                   **University Project**

- **System Architecture:** Developed a client-server architecture using Java and TCP connections.
- **Database Management:** Managed user registration, login, and hotel data.
- **Multithreading:** Implemented multithreading for concurrent operations.
- **Data Storage:** Employed persistent data storage mechanisms.

MultiThreaded-FileStats-Server

**C program for efficient and parallel calculation**                                   **University Project**

- **Server-Client Architecture:** Developed a robust and scalable server utilizing multiple threads for accelerated statistical calculations, enhancing performance and throughput.
- **Parallel Processing:** Implemented a modular design to enable efficient parallel processing for recursive file analysis, adaptable to various directory structures and file types.

## LANGUAGES

- **English** - C1 (Cambridge)
- **Italian** - Native

## SKILLS

**Languages:** Rust, Java, SQL(MySQL, PostgrSQL, MongoDB, ScyllaDB), Python, JavaScript, Typescript, C, OCaml

**Technologies:** Docker, Kubernetes, Cloud Computing, Git

**Soft Skills:** Great Communication, Teamwork, Problem-solving, Adaptability, Logical Thinking, Process-driven