

Stefano Furi

MSc COMPUTER SCIENCE AND ENGINEERING STUDENT

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Work Experience

Department of Engineering and Computer Science - University of Bologna

Cesena (FC), Italy

SOFTWARE ENGINEER INTERN

Mar. 2023 - Jul. 2023

- Developing a web-based, real-time access and monitoring system for UNIBO's **Alchemist** Simulator through GraphQL.
- Analysis and comparative study on **data science tools** in *Kotlin* with respect to *Python*'s ecosystem.
- Developing a comparative case study using both ecosystem, showing off pros and cons of the two platforms.
- **Tech Stack:** [Python3, NumPy, Pandas, Matplotlib, Kotlin, GraphQL, Gradle]

Education

Alma Mater Studiorum, University Of Bologna

Cesena, Italy

MSc IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2023 - Present

- **Focus:** Distributed Systems, Parallel and Distributed Computing, Advanced Software Architectures, Machine Learning and Deep Learning, Computer Vision, Software Process Engineering (DevOps), Advanced Software Modeling and Design

Alma Mater Studiorum, University Of Bologna

Cesena, Italy

BSc IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2020 - Nov. 2023

- Final Mark: **108/110**, GPA: 27.8/30 (top 4%)
- **Focus:** OOP, Algorithms and Data Structures, Machine Learning, High Performance Computing (OpenMP, MPI, CUDA), Linear Algebra, Relational Databases, NoSQL Databases.

Projects

REAL-TIME COLLABORATIVE TEXT EDITOR

- Developed a real-time collaborative/ text editor based on *Operational Transformation* algorithm.
- Highly available and scalable system.
- **Tech Stack:** [Kotlin, NodeJS, Ktor, ShredB, ETCD, PostgreSQL, Docker, RAFT]