Tommaso Ferracina

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Education

BSc Mathematical and Computing Sciences for AI - Università Bocconi   *2022–2025*

- Degree in English, concepts and methods of: Mathematics, Computer Science, Physics and Economics.
- Writing a thesis exploring Autoregressive Networks for proteins.

International Baccalaureate   *2020–2022*

- Year 1: Tanglin Trust School in **Singapore**
- Year 2: International School of Zug and Luzern in **Switzerland**

Early Education

Lived and studied in: **Paris**, France (2005–09), **Zurich**, Switzerland (2009–13), **Miami**, Florida (2013–19), **Singapore** (2019–21)

Work Experiences

Data Engineering Intern - ALFAGOMMA Group (Industrial Manufacturing)   *Jun–Aug 2024*

- Developed document parsing automation using Azure Document Intelligence, saving hours of manual labor
- Created a data pipeline with GPT-4 to process and categorize 10,000+ invoices across multiple countries
- Offered part-time work contract, currently working while studying

Experiences

Open Source Developer - <u>Attimo</u> (Desktop App)   *Aug 2024–Present*

- Developing a Golang / Svelte productivity app, implementing maintainable and scalable architecture
- Creating efficient dynamic database handling and seamless backend-frontend communication

Founder and President - Bocconi Students Jazz and Classical   *May 2023–Present*

- Created and led an association which has grown to 300+ members
- Organized events and concerts, selling out 100+ tickets, and weekly music journal

Technical Skills

Tools & Platforms

- Git, Fine-tuning Hugging Face Models, LlamaIndex
- Microsoft Azure: Document Intelligence and Integration with Blob Storage

Programming Languages

- Python (*PyTorch (Lightning), NumPy, Pandas, sci-kitlearn*), SQL, Go, Shell scripting

Languages

- **Italian** native, **English** bilingual, **French** proficient, **German & Mandarin** elementary

Extracurricular Activities & Achievements

- **Cello**: ABRSM Grade 8, playing for 15 years, part of many Symphonic and Chamber Orchestras
- **Water Polo**: Competed for teams the United States, Singapore and Switzerland, currently swimming
- UK Mathematics Trust Senior Challenge Silver Award - math competition   *Apr 2020*