

Jack Massey

Computer Science Student — AI and Data Science Enthusiast

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Education

Université Côte d'Azur

In Progress

Bachelor's degree in Computer Science

Relevant Coursework: Machine Learning, Algorithms, AI, Data Science

Lycée Albert Ier

2022

French Baccalaureate with Mention Très Bien

- Excelled in Computer Science (19/20), Mathematics (18/20), and Physics
- Completed supplementary coursework in Latin and Advanced Mathematics

Technical Skills

- **Programming Languages:** Python (Proficient), Java, C, OCaml
- **Machine Learning:** Pandas, Scikit-learn, TensorFlow, PyTorch, Hugging Face (NLP)
- **Databases:** MySQL, PostgreSQL
- **Systems and Tools:** Unix, zsh, Git, GitHub, GitFlow, Agile Development
- **Containerisation:** Docker, Kubernetes
- **Other:** Web Development, Data Structures and Algorithms, Networking

Professional Experience

i3S Research Laboratory, Sophia Antipolis

Summer Intern, 2024

Technologies: Constraint Programming, NLP, Beam Search, KL Divergence, Specialisation

- Explored integration of Constraint Programming and NLP to solve real-world problems
- Worked on optimising search processes in NLP
- Applied KL Divergence and Perplexity to evaluate language models
- Reproduced results from Yao et al., ICLR 2024, integrated into CP 2024
- Studied research papers to deepen understanding

Research Paper: arxiv.org/pdf/2407.13490

Self-Employed, Monaco

Private Tutor, 2022-Present

- Designed personalised learning plans to improve students' understanding of chess, computer science, mathematics, and physics
- Helped students improve problem-solving skills and academic performance

The Financial Times Live Event, Monaco

Event Assistant, May 2023

- Assisted in executing a high-profile industry conference, managing schedules and participant needs

United Nations Simulation, Nice, Sophia-Antipolis

Ambassador Delegate, 2018, 2019

- Collaborated with international delegates to draft and pass a resolution on economic inequality

ATP Tour, Inc., Monaco

Intern, 2018

- Gained insights into international tennis organisation operations, assisting with event planning

L'Ecole Bleue, Monaco

Swimming Instructor, 2017-2021

- Conducted swimming lessons and water safety training for young learners

Certifications

- Cambridge C1 English Advanced Certificate (2021) - Professional Proficiency
- European First Aid Certificate, Red Cross (2020) — Young Lifeguard Certificate (2019)

Leadership and Service

Lycée Albert Ier

Class Delegate

2018-2022

- Advocated for student concerns, facilitating communication with administration

Member of the School Council

2021-2022

- Contributed to policy formulation and decision-making

International Day of the Girl Child

Volunteer, 2022

- Helped organise events raising awareness of girls' rights and global challenges