

# Joachim Bono

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## EDUCATION

**University of Fribourg** - Fribourg, Switzerland - 2022-2025

*Bachelor of Science (180ECTS) in Computer Science*

*Thesis:* Full-stack tutoring platform built with Django, React, and PostgreSQL.

*Minor:* Psychology/Pedagogy

**University of Fribourg** - Fribourg, Switzerland - 2019-2022

*Bachelor of Science (180ECTS) in Psychology*

Reoriented to Computer Science after completing four semesters.

**École Prévôttoise** - Moutier, Switzerland - 2018-2019

*Dubs Complementary Exam (Examen Complémentaire Passerelle Dubs)*

Multidisciplinary curriculum covering: French, English, Mathematics, Biology, Chemistry, Physics, History, and Geography. Preparation for the complementary exam known as Dubs, which enables holders of a Professional or Specialized Maturity Certificate to access all fields of study at Swiss universities.

**Signal'Air** - La Neuveville, Switzerland - 2017-2018

*Specialized Maturity Certificate in Social Work (Maturité Spécialisée Travail Social)*

This certificate is intended for students who have completed a General Education School in the field of social work. It includes 40 weeks of practical internships and the completion of a Specialized Maturity Thesis related to the social field.

**Lycée Jean-Piaget/Numa-Droz** - Neuchâtel, Switzerland - 2013-2017

*Certificate of General Education (Certificat de Culture Générale)*

**Lycée Français Alexandre Yersin** - Hanoi, Vietnam - 2010-2013

*French Lower Secondary School Certificate (Diplôme National du Brevet)*

## EXPERIENCE

**Substitute Educator** - Signal'Air, La Neuveville - 09.2022-03.2023

Supervised children, designed and led educational activities, and facilitated communication between families and staff.

**Intern** - ABCCD Research Group, Fribourg - 04.2022-08.2022

Internship done as part of my Bachelor of Science in Psychology.

Collaborated on designing co-speech gesture assessment tasks, utilized R for data analysis, recorded multimedia stimuli, and implemented multilingual experimental tasks with test runs.

**Intern** - Signal'Air, La Neuveville - 08.2017-06.2018

Internship done as part of a Specialized Maturity in Social Work.

Supervised children while designing and leading daily educational activities. Actively participated in weekly team meetings and maintained clear communication with both parents and staff members.

## PROJECTS

**Full-stack tutoring platform built with Django, React, and PostgreSQL**

Developed during my Bachelor's Thesis with the Software Engineering group of the University of Fribourg. Implemented a headless architecture with Django REST Framework as the API backend and React for a responsive frontend. Key features include search functionality, topic filtering, tutor cards, user profiles, notifications, session management, a messaging interface, and more. The platform was containerized with Docker for consistent deployment and includes a database seeding script for testing and demonstration purposes.

### **A real-time collaborative text editor built with Phoenix**

Developed in collaboration with a classmate for the final project of our Concurrent and Distributed Systems course. It uses Conflict-Free Replicated Data Types (CRDT) for conflict resolution in order to ensure multiple users can edit a text document simultaneously without causing inconsistencies. Key features include live user tracking, caret positioning, and also persistent document state across sessions. The platform was containerized with Docker for easy deployment.

## **SKILLS**

**Programming Languages:** Java, Python, JavaScript, Elixir

**Frameworks & Libraries:** Django, React, Phoenix, NumPy, Pandas, PyTorch

**Tools & Technologies:** SQL, Git, Docker, LaTeX, MS Office Suite, macOS, Linux

**Soft Skills:** Communication, Collaboration, Problem-Solving, Adaptability

## **LANGUAGES**

**French** (Native), **English** (C2), **Spanish** (A2), **Italian** (A2), **German** (A1 - learning)

## **OTHER**

**CS50: Introduction to Cybersecurity** - HarvardX - 2023

Completed five lectures, each with a practical assignment covering key cybersecurity topics, and culminating in a final project.

**Introduction to Data Science** - Cisco Networking Academy - 2023

Explored data analytics applications, including AI/ML, through practical case studies and assessments.

**Cybersecurity Essentials** - Cisco Networking Academy - 2023

Acquired knowledge of cyber threats, defense strategies, and legal principles to protect data and networks.

**Python Essentials** - Cisco Networking Academy - 2023

Trained in Python software development: wrote modular code, applied OOP, and prepared for professional programming roles.

**Cambridge Advanced Exam** (C1) - 2019

Awarded a distinction – demonstrated proficiency at CEFR Level C2.

**DELE Spanish Diploma** (A2) - 2012

## **ABOUT ME**

Swiss-Italian Computer Science graduate with a solid theoretical foundation and practical experience gained through academic and personal projects. My pluricultural perspective, shaped by living in multiple countries throughout my childhood and adolescence, enhances my adaptability, open-mindedness, and communication skills in diverse environments. Naturally curious, disciplined, and motivated, I am eager to apply my skills and gain my first professional experience in the tech industry.