

Mauro Machado

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Profile

I am a university student in Computer Engineering and Physics, with a strong passion for science, mathematics, and data management. I have participated in various learning, research, teaching, and/or practical experiences. I am currently seeking work experience in the field of data science.

Education

Computer Engineering, *Universidad Católica del Uruguay* 📄 03/2023 – Present
Courses: Databases II, Application Analysis and Design I, Applied Probability and Statistics.
Montevideo, Uruguay

GPA: 5.71/6

Physical-Mathematical Engineering, *Universidad de la República* 07/2023 – Present
Courses: Physics 1 and 2, Differential and Integral Calculus in One and Several Variables, Geometry and Linear Algebra 1 and 2, Probability and Statistics, Physics 3, and Vector Calculus.
Montevideo, Uruguay

GPA: 9.69

Software Developer, *Universidad Católica del Uruguay* 📄 03/2023 – 12/2024
Technical Degree (2 years) within the Computer Engineering program.
Courses: Interdisciplinary Engineering Introduction Workshop, Programming I and II, Microprocessors, Discrete Mathematics I and II, Algorithms and Data Structures, Operating Systems, Databases I, Data Networks, Web and Mobile Development, Professional Ethics in Engineering.
Montevideo, Uruguay

Experience

Assistant Professor, *Universidad Católica del Uruguay* 03/2025 – Present
I work as a teaching assistant in the Operating Systems course, assisting with class instruction, preparing assignments and evaluations.
Montevideo, Uruguay

Substitute Physics Teacher, *Colegio San Ignacio* 02/2025 – 04/2025
I filled in as a substitute teacher for 1st-year high school physics. I was involved in the overall course planning as well as teaching the classes.
Montevideo, Uruguay

Private tutor, *Independiente* 09/2024 – Present
I tutor high school students in science-related subjects. My responsibilities include preparing, planning, and teaching tailored lessons, as well as providing support with problem-solving and explaining concepts adapted to each student's individual needs.
Montevideo, Uruguay

Volunteering

Support Teacher, *Colegio San Ignacio* 03/2023 – 05/2025
I provide assistance with problem-solving and understanding concepts in mathematics, physics, and chemistry to high school students in a dedicated support and study environment.
Montevideo, Uruguay

Science Workshop Coordinator

My responsibilities included planning, presenting, and facilitating activities aimed at introducing lower secondary school students to scientific and experimental thinking.

04/2023 – 03/2024

Montevideo, Uruguay

Languages

Certificate in Advanced English (CAE)

Certified by Cambridge; C1 level according to the Common European Framework of Reference for Languages (CEFR).

Certifications

Machine Learning Specialization [↗](#)

Remote course offered by Stanford University and DeepLearning.AI [↗](#) covering linear and logistic regression, neural networks, decision trees, and recommendation systems.

Philosophy Diploma, Edutin Academy [↗](#)

Projects

PausaR, *BioConductor Package for RNA-seq Data Processing*

- A software package was developed for visualization and filtering of genomic sequence data, processing vectors with over 2 million entries in R.

Automated Electronic Voting System

- Developed a voting application using MySQL, Node.js, and React to automate vote registration and counting. Implemented secure workflows for authentication, voting, and tallying, ensuring accurate and efficient election processes.

Administrative Application for a Snow Sports School

- A full application was developed for managing courses, instructors, classes, students, and costs for a snow sports school using Docker, React, Python, Flask, and MySQL.