JOSUÉ CASTRO RAMÍREZ

Computer Engineering Student

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EXPERIENCE

Software Development Assistant

redbioma

 Oct 2023 – ongoing

- I am currently teaching Python for Data Science at red-bioma, giving classes to students from all over Mesoamerica. My strengths in the course focus on two areas: academic and administrative. I have been able to teach the basics of Python, OOP, NumPy, Pandas and GeoPandas. I have gained great experience in organizing course planning; with assignments, labs, projects, course evaluation surveys, among others…. Feel free to visit the course syllabus here: redbioma.org

- I was hired to develop a website for the redbioma project using free tools such as Jekyll and GitHub Pages so that there is a global medium to publish works, news and publicize the project. Feel free to take a look at the project at redbioma.org.

Research Assistant - ITCR Biodiversidad

Instituto Tecnológico de Costa Rica

 Feb 2023 – ongoing

- I am currently in the process of publishing an article in the 50th Latin American Conference on Informatics (LCLEI 2024), which deals with the course taught with the Universidad Técnica Nacional (UTN), which talks about the gender gaps in computing present in Costa Rica and how the course positively affects it.

- I was part of an inter-university project between the Instituto Tecnológico de Costa Rica (ITCR) and the UTN. I taught Python for Data Science classes to UTN students. Some of my responsibilities were preparing class material, such as presentations, homework and projects; giving master classes, among others.

Research & Administrative Assistant - LabExp

Instituto Tecnológico de Costa Rica

 July 2022 – July 2023

- I work on the development, research, and design of new inclusive methodologies to apply them in a project with the Erizo Juan Santamaría informal settlement, which seeks to strengthen and support the community resilience by facilitating the risk management.

- Administrative assistant at Lab Exp, working on communication and diffusion of different Lab's open source projects. Some of my common tasks are: writing news, making infographics, websites testing and many other things related to the Lab's projects.

EDUCATION

Bachelor's degree in Computer Engineering

Instituto Tecnológico de Costa Rica

 Feb 2020 – Jul 2024   Centro Académico Alajuela

Portuguese Level VII

Universidad Técnica Nacional

 Oct 2019 – Dec 2019   Sede Central

English Level XII

Universidad Técnica Nacional

 Aug 2015 – Sept 2015   Sede Central

LANGUAGES

Spanish	*Native*
English	*Advanced*
Portuguese	*Advanced*

LEARNED TECHNOLOGIES

Programming languajes

Python   Java   C   C#   C++   Dart   NASM

Markup languajes

LaTeX   MarkDown   HTML   CSS

Libraries

PyTorch   NumPy   Pandas   GeoPandas   Matplotlib   unittest   JDBC   JUnit

Frameworks

JeKyll   Flutter   Spring Boot   Robot Framework

Databases

SQL   MySQL   MongoDB   Google Firebase

Operative systems

Linux   Windows

REFEREES

M.Sc. María Auxiliadora Mora Cross

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 Instituto Tecnológico de Costa Rica