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Rubén Pérez

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EDUCATION

University of Granada — Granada, Spain
MSc in Data Science and Computer Engineering; GPA: 9.1/10 - 1 Honorific Mention — *Sep. 2023 – Jul. 2024*

University of Cádiz — Cádiz, Spain
BSc in Computer Science; GPA: 8.83/10 - 7 Honorific Mentions — *Sep. 2019 – Jul. 2023*

EXPERIENCE

CERN — Meyrin, Switzerland
Full-stack Developer — *Jul. 2024 – Ago. 2024*
- Selected out from over 6660 applicants for the Openlab Summer Student Programme.
- Created *reana-jupyterlab*, an open-source JupyterLab extension in React and Python to interact with REANA, a reproducible research data analysis platform.
- Automated the project's publishing process to PyPI, the building of Docker images, and the integration of testing using GitHub Actions to streamline CI/CD pipelines.

University of Granada — Granada, Spain
Data Analyst — *Apr. 2024 – Ago. 2024*
- Participated as a researcher in the project *U-MIND – Understanding Multimodal Misinformation Diffusion*.
- Analysed 1.5M+ Telegram messages from 90 channels to investigate the spread dynamics of misinformation, focusing on the impact of multimedia content.

University of Cádiz — Cádiz, Spain
Full-stack Developer — *Oct. 2021 – Jul. 2023*
- Contributed to two different open-source projects in collaboration with the Software Process Improvement & Formal Methods research group (SPI&FM, TIC-195).
- Designed and developed a community-based learning platform for the students of the Databases course. Implemented an API REST in Django (Python) and a PWA in NextJS, and successfully deployed the project on a Rocky Linux server.
- Enhanced, deployed and maintained a legacy Laravel (PHP) platform to learn SQL, previously created by the SPI&FM research group. It used a NodeJS API connected to an IBM Watson Assistant instance to help the students with the exercises. In the first year, more than 70 students used the platform, and we fetched data from over 2400 attempts (9400+ queries).

PROJECTS

- **Sudoku Player**   Sudoku player with image and audio recognition in MATLAB. Sudokus are scanned using the webcam, and each insertion or deletion is given by voice or image. It integrates a user-friendly GUI.
- **Search Engine**   Developed a Java-based search engine that employs efficient indexing and searching techniques. I implemented algorithms for text tokenization and result ranking to enhance search performance.
- **C to Assembly Translator**   C translator to assembly (x86) using SLY (Python) along with a nice and interactive GUI for the user. I designed and created the grammar to accept a subset of C.

AWARDS

- Departmental Collaboration Scholarship from the Spanish Ministry of Education (2022/23)
- First Place in the IX edition of the Regional Multisite AdaByron Competitive Programming Contest (2023).
- Outstanding Student Award in Computer Science (University of Cádiz, 2024).
- Athenaeum-UCA Chair Award in Engineering and Architecture (Athenaeum of Cádiz, 2024).

SKILLS

- **Languages:** Spanish (Native), English (B2 FCE), French (Elementary)
- **Programming Languages:** C/C++, Java, Javascript, Python, MATLAB, R.
- **Software:** Git, React, MySQL, MongoDB, Tensorflow.
- **Certifications:**   MongoDB Associate Developer (MongoDB), Data Analyst Path (Google Cloud), Associate Cloud Engineer Learning Path (Google Cloud), CCNA: Introduction to Networks (Cisco), Machine Learning with Python (freeCodeCamp).