Mercedes Argüelles

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Experience

Jul 2021 — Jan 2022

Intern at Wazuh, Spain

- Installed and **maintained** Wazuh server and agent in various environments.
- Conducted real-time **troubleshooting** to resolve client issues.
- Designed **regex** pattern-matching rules.
- Wrote **technical documentation** to support the product.

Sep 2019 — Jul 2020

Research Intern at CIMCYC, Spain

- Designed and implemented a neuropsychology experiment aimed to study differences between cognitive processes.

Education

2016 — 2022

BSc in Computer Science at University of Granada, Spain
Specialized in Information Technology.

2015 — 2020

BSc in Psychology at University of Granada, Spain
Special interest in Cognitive and Computational Neuroscience.

Projects

2022 — 2022

BSc thesis — Computational model of the basal ganglia and surrounding areas at University of Granada, Spain
Implemented a spiking neuron model to replicate neural activity associated with Parkinson's disease and simulated the efficacy of surgical therapy in regulating symptoms.

2019 — 2020

BSc thesis — Role of brain oscillations during slow-wave sleep in memory recall using targeted memory reactivation at University of Granada, Spain
Wrote a literature review of the last 10 years on the impact and possible mechanisms of slow-wave sleep effects on memory consolidation and recall.

Languages

Spanish (native) and English (proficient, C1).

Skills

- Experienced in **Python** and **C++**, and familiar with **Flask**, **Django** and **FastAPI**.
- Basic knowledge of **Ruby**, **C**, **HTML**, **CSS**, **NoSQL** and **SQL** DB.
- Comfortable with **Linux**, **Git**, **Docker** and LaTeX.