

Alberto Montero

📍 Málaga, Spain | ✉ 13albertomontero@gmail.com | 📞 +34622223442
🌐 linkedin.com/in/albeertomonterosolera | 🐙 github.com/monteero13

EDUCATION

Bachelor's Degree in Health Engineering, Specialization in Bioinformatics (Expected) University of Málaga Current GPA: 7.4/10 Status: Pending submission of Bachelor's Thesis (TFG)	Sep 2021 – Jun 2025
High School Diploma – Science Track IES Torre Atalaya Final Grade: 9.19/10	Sep 2019 – Jun 2021

RESEARCH EXPERIENCE

Research Group: "Khaos Research" University of Málaga <ul style="list-style-type: none">Research and development with Large Language Models (LLMs) and Semantic Web technologies (Ontologies).Full-Stack web development using Next.js, React, and Tailwind CSS for research tools.Integration of backend services and managing complex data workflows.	Sep 2025 – Present
Research Group: "Computational Intelligence and Image Analysis" University of Málaga <ul style="list-style-type: none">Documentation for the ISIC challenge: data acquisition, types, and technologies employed.Analysis of undocumented models relevant to the challenge.Review of dermatology research papers from MICCAI 2024.	Mar 2025 – Jun 2025

FEATURED PROJECTS

Predictive Model for Cardiovascular Disease — Data Mining <ul style="list-style-type: none">Design of a predictive model based on clinical and demographic variables.Repository: Heart Problems
Predictive Model for Antibiotic Impact on Breast Cancer — Data Mining <ul style="list-style-type: none">Evaluation of the influence of antibiotic use on the response to neoadjuvant therapy.Repository: Antibiotics and Neoadjuvant Therapy
Aniridia and its Relationship with Other Pathologies — Systems Biology <ul style="list-style-type: none">Genetic and molecular analysis of aniridia and its relationship with systemic diseases.Bioinformatics exploration of genotype-phenotype connections with WAGR, Gillespie, and Axenfeld-Rieger syndromes.Repository: Aniridia Project
Open Data Standards and Data Integration Project <ul style="list-style-type: none">Data querying and transformation from MongoDB using Python scripts.Automatic generation of HTML documents via XML and XSLT.Ontology modeling based on MongoDB data, explored using SPARQL.Dynamic creation of RDF graphs from unstructured data.

LANGUAGES

Spanish: Native	English: B2 Level (Cambridge Certificate)
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TECHNOLOGIES AND TOOLS

Languages: Python, Java	Databases: MongoDB, MySQL
Modeling: XML, JSON, Oracle Data Modeler	Frameworks: SpringBoot, Angular, Next.js, React