

Javier Domínguez Segura

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Work Permits | Work authorization: [EU/CH status] | Eligible to sign an internship agreement via IE University

EDUCATION BACKGROUND

IE University

Bachelor of Science in Computer Science & Artificial Intelligence,

Madrid, Spain

Expected: July 2027

- GPA: 96.3/100 (Top of class, Dean's List)

- Relevant Coursework:

- Machine Learning & AI: ML Fundamentals (A+, hons), AI Fundamentals (A+), Natural Language Processing (in progress), Computer Vision (in progress), Reinforcement Learning (in progress)
- Mathematics: Linear Algebra (A+), Probability for CS (A+), Calculus II (A+), Discrete Math (A), Physics (A)
- Software Engineering: Databases (A+, hons), OS & Networks (A), Computer Architecture, C Programming (A+, hons), Data Structures & Algorithms (A-), DevOps (in progress), High-Performance Computing (in progress)
- Business & Entrepreneurship: Intro to Business Management (A+, hons), Entrepreneurship (A+)

PROFESSIONAL EXPERIENCE

Kronos Technology - Full Stack App

Gran Canaria, Spain

Co-founder / Lead developer

January 2022 - November 2023

- Designed and deployed a production-ready booking platform used by multiple businesses, enabling thousands of monthly reservations and reducing manual scheduling effort by 40%.

- Built with Python (FastAPI), MySQL, Redis, firebase (auth and analytics), Stripe (payment) and deployed on AWS with CI/CD

STRIDE Research Labs, U.S. NSF Program - HPC & AI Lab

Madrid, Spain

Research Intern

Summer 2025 - Present

- Designing HPC middleware for agent-based workflows on NCSA Delta supercomputers through NSF's ACCESS program. Partnering with the RADICAL research lab at Rutgers University on the Integrated Machine-learning for Protein Structures at Scale (IMPRESS) project.

PROJECTS

Flowgentic — HPC Agentic Framework Integration ([Github](#)) | Summer 2025 - Present

- Built open-source Python package enabling agent frameworks (LangGraph, CrewAI, AG2) to run on HPC schedulers with minimal code changes, designed for developer ergonomics and production workflows.
- Integrated LangGraph with RADICAL AsyncFlow for concurrent agent execution; actively used by researchers at Rutgers University for the IMPRESS project (protein structure ML at scale on NCSA Delta supercomputers). Developed during NSF-funded research at STRIDE Research Labs

Efficient Classifier — Open-Source ML Framework | [[PyPI](#)/[GitHub link](#)] | Spring 2025

- Developed a dataset-agnostic machine learning framework for rapid prototyping and deployment of classification pipelines on tabular data.
- Achieved 92% F1-score on CCCS-CIC-AndMal-2020 (Android malware detection, 50K+ samples), outperforming baseline approaches by 10% for certain models.

AWARDS & HONORS

EduCaixa The Challenge – Finalist in international research competition (<0.02% acceptance) to conduct big data research on high-school dropout rates. Presented findings in Silicon Valley with workshops by Google, and Apple employees and Stanford students. ([source](#))

IE Entrepreneurship Award – Merit-based college scholarship awarded to students with outstanding entrepreneurial potential.

Dean's List, School Of Science & Technology—Recognized for top academic performance across multiple semesters ([source](#)).

ACTIVITIES & LEADERSHIP

IE Student Government,

Madrid, Spain

Class representative

September 2023 – Present

- Elected to represent and advocate for the academic needs of 100+ Computer Science students to university administration and faculty.
- Drove curriculum adjustments and influenced resource allocation decisions by synthesizing complex student feedback and presenting data-backed proposals to stakeholders.
- Successfully negotiated for the implementation of new academic resources, directly improving the educational experience for the entire cohort.

ADDITIONAL INFORMATION

- **Languages:** Spanish (Native). English (Fluent, 3 years, daily use). German (Intermediate).

- **Technologies & Tools:** Python, SQL, Pandas, Numpy, Scikit-learn, Pytorch, Hugging Face, Langraph, Apache Spark, BigQuery

- **Personal interests:** poker, history books, basketball, triathlon