

RICARDO ANDRES MENDEZ CAVALIERI

Madrid, Spain. EU Citizen.

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Eligible for working full-time after graduation or part-time

SUMMARY

Driven Computer Science & AI student passionate about combining backend engineering and AI innovation. Skilled in full-stack development, agent systems, and ML. Founder of a nightlife tech startup. Proficient in Python, C++, Swift, and Java.

EDUCATION

IE UNIVERSITY (IEU)

Madrid, Spain

Bachelor in Computer Science & Artificial Intelligence

Expected: 2026

- GPA: 9.38/10 – ranked 1st of the 2026 class
- Honors: 14 Honor Awards, High Potential Award Scholarship (100%), IE Foundation Fellowship, Top 5% Honors Program
- Relevant Courses: High Performance Computing, Reinforcement Learning, Recommendation Systems and Chatbots, Machine Learning Foundations, Statistical Learning, Software Development and DevOps, Cloud Computing

HIGHLIGHTED EXPERIENCE

Supahost – Short Term Rental Funded Startup

Madrid, Spain

AI Engineer

August 2025 – Present

- Developing AI agents using FastAPI, SQLAlchemy, and Google's Agent Development Kit (ADK).
- Designing and implementing agent memory systems now in production.
- Improved automated testing with mock data pipelines, enhancing system reliability.
- Contributed to product evolution with new feature proposals and AI-driven solutions.

Wise – Personal Onboarding Verification Team

Tallinn, Estonia

Backend Software Engineer Intern

June 2025 – August 2025

- Enhanced large-scale identity verification (liveness, ID) systems using Java & Spring, as well as SQL and Snowflake.
- Implemented distributed systems with Kafka, site reliability and monitoring with Grafana, and Test-Driven Development.

theHouse – Nightlife Technology Startup

Madrid, Spain

Founder

September 2023 – Present

- Led team, product vision, and fundraising (€3,000 raised).
- Architected **Dash**, a payment gateway & CRM platform for nightlife venues (Python/Django, React, PostgreSQL, Docker, NGINX, Gunicorn).
- Built and deployed **theHouse App**, an iOS social platform (SwiftUI, Firebase) with 500+ downloads, connecting 300+ users and 30+ clubs in Madrid.

PROJECTS AND PAST EXPERIENCES

- **Planwise:** Recommendation system for organizing city plans and routes according to user preferences. Implemented 5 different approaches using Python: autoencoder, SVD, transfer learning, embeddings, and an ensemble recommender. *Repository Link*.
- **Napkin:** An open-source, swift-based macOS scratchpad for quick, disposable notes. *Repository Link*.
- **Algo-visualizer:** C++ library implementing a generic sorting algorithm visualizer (including the STL sort), as well as an interface for visualizing existing algorithms. Built using CMake. Documentation created using Breathe and Doxygen and published on Read the Docs. *Repository Link*.
- **One Minute Agent:** Intelligent emergency-response system enabling offline, privacy-first AI assistance for victims and 911 operators, built on a custom nagents framework and Ollama (Python, Streamlit, React). *Repository Link*. *Kaggle Submission*.

ADDITIONAL INFORMATION

- **Languages:** Spanish (Native), English (Fluent), Italian (Advanced), French (Basic)
- **Programming:** Python (Django, FastAPI, ML), C++, Swift (SwiftUI), Java (Spring), SQL, HTML/CSS
- **Technologies:** TensorFlow, Ollama, Docker, GitHub CI/CD, Linux, Azure (Bicep), AWS, PostgreSQL, MySQL, MongoDB, Firebase, Kafka, Grafana, TDD, Agentic AI, Google ADK, MLOps, Snowflake
- **Other:** Python Tutor. Published two research papers; currently developing a thesis on agentic memory (*ORCID*).