

Iván Sotillo del Horno

Computer Science Engineer

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EDUCATION

MASTER IN DATA SCIENCE

Universidad Autónoma de Madrid, Spain (2024-2025)

- Currently Studying...

BACHELOR IN COMPUTER SCIENCE ENGINEERING

Universidad Autónoma de Madrid, Spain (2020-2024)

- Maintained an average grade of 8.31/10. Awarded two honorific mentions and an excellence scholarship.

STUDY ABROAD PROGRAM

University of Helsinki, Finland (2023)

- Completed a semester focused on Artificial Intelligence, Data Structures and Analysis of Algorithms and Business.
- Developed soft skills such as time management and cross-cultural teamwork by collaborating with diverse groups.

SINO-EURO SPRING SCHOOL 2024

Northwestern Polytechnical University, Xi'an, China (2024)

- Completed a two-week program on Grey Systems Theory (very helpful in Data Science to analyze systems with limited data) and other topics in science and engineering, gaining cross-cultural experience.

PROFESSIONAL EXPERIENCE

PRIVATE TUTOR

2022 - Present

- Achieved a 100% pass rate for all my students in mathematics, physics, and chemistry.

EVENT ASSISTANT (VELADAS DEL PALACIO, BOADILLA DEL MONTE)

June 2024 - July 2024

- Managed ticketing and provided assistance to around 3000 attendees per day during events.

LIFEGUARD (GRUPO OCEAN)

June 2021 - September 2021

- Ensured safety and responded to emergencies, demonstrating quick decision-making, and teamwork.

PROJECTS

- **Bachelor Thesis (Python):** Comparative analysis of classifiers for breast cancer detection and eXplainable AI (XAI) to understand the predictions using Python (Scikit-learn, Pandas, Seaborn, SHAP), Django for web application to see all the results, and LaTeX for documentation. [Website Repo](#), [Classifiers Repo](#), [WebPage](#).
- **AnkiWannabe (Kotlin):** Created a flashcard app using Kotlin and Jetpack Compose with user authentication and cloud syncing via Firebase. The application follows Material Design. [GitHub](#).
- **Reversi AI (Python):** Developed an AI for the game Reversi using minimax with alpha-beta pruning and various heuristics, achieving 100% test coverage and comprehensive documentation. [GitHub](#).
- **Pomodoku (JavaScript):** Created a Discord bot for playing YouTube and Spotify music in server calls. [GitHub](#).
- **Pentesting (Metasploit):** Performed a penetration test on a Metasploitable VM using Metasploit. Explored exploits on ProFTPD, CUPS, Drupal, and Apache services, and evaluated IDS effectiveness. [GitHub](#).

ADDITIONAL INFORMATION

- **Technical Skills:** Python, Java, C, C++, JavaScript, SQL, Linux, Git, Kotlin, HTML, CSS, Django, Vue, LaTeX.
- **Languages:** Spanish (Native), English (C1), French (Basic)
- **Courses:** Arduino (Universidad Pontificia Comillas), ASP.NET (Aspasia), Social Media Marketing in Commerce (Consultora Monte Alto)