Mario Marín

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CYBERSECURITY & AI ENGINEERING STUDENT Dual-profile engineering student pursuing a specialized Bachelor's in Cybersecurity & Artificial Intelligence. Combines strong academic foundations with high-performance practical skills in C and Systems Programming from 42 Málaga. Proven experience in technical mentorship (Google.org Bootcamp) and building secure, data-driven architectures. Seeking Summer 2026 Internship to apply Deep Learning and Vulnerability Research skills.

EDUCATION

University of Málaga (UMA), Málaga, Spain — Sept 2023 - Jun 2027

- **Status:** On track to complete 3rd year (180+ ECTS) by June 2026.
- **Relevant Coursework:** Deep Learning, Data Structures, Cryptography.
- **High School Graduation with Honors:** GPA 10/10

42 Málaga (Coding School), Málaga, Spain — Sept 2024 - Jun 2027

- **Focus:** Advanced C programming, Unix architecture, memory management, and algorithms.
- **Methodology**: High-performance, peer-to-peer learning environment emphasizing autonomy and problem-solving without instructors.

PROFESSIONAL EXPERIENCE

Google.org & UMA — Málaga, Spain
Technical Mentor - Cyber Bootcamp — July 2025

- Selected to mentor 100+ university students in a specialized cybersecurity and AI training program funded by Google.org.
- Designed and deployed a **CTF (Capture The Flag) competition**, engineering custom challenges that tested participants on cryptography and reverse engineering.
- Analyzed student performance data using Python to adjust curriculum difficulty in real-time, improving completion rates and technical understanding.

PROJECTS

Financial Market Predictive Transformer | Python, Pandas, PyTorch — 2025

- Engineered a hybrid Deep Learning model (Transformer architecture + Static Context) to predict S&P 500 market outperformance.
- Built an ETL pipeline processing 10 years of financial data, implementing robust data cleaning to remove noise and normalize records.
- Designed custom loss functions to minimize False Positives, directly addressing financial risk.

SAST Vulnerability Analysis System | Python, SQL, Docker — 2025

- Developed a Static Application Security Testing (SAST) tool integrating with the NIST NVD API to fetch real-time CVE data.
- Reduced query latency for vulnerability definitions by optimizing SQL database schemas for high-volume datasets.
- Deployed the system using Docker and created a Flask-based dashboard to visualize code quality KPIs for security auditing.

Minishell - Custom Linux Shell Implementation | C, Bash, Unix — 2024

- Re-engineered a functional Bash-like shell from scratch in C, handling process creation (fork), signal handling, and memory management manually.
- Implemented complex parsing logic for pipes and I/O redirection, demonstrating deep understanding of low-level system calls and kernel interaction.

TECHNICAL SKILLS

Data Science & ML:	PyTorch, TensorFlow, LLM Concepts, Pandas, NumPy, Scikit-learn.
Languages:	Python (Advanced), C (System level), SQL, Bash, C++.
Tools & DevOps:	Git, Docker, Linux/Unix, CI/CD Pipelines, GCP (Basic).
Cybersecurity:	Secure Programming, Web Security, Ethical Hacking & Pentesting.
Languages:	Spanish (Native), English (C1 - Advanced), French (Basic).