Hugo Barroso Muñoz

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Professional Summary

Software Engineer specializing in distributed systems, high performance services, and cloud architectures. I am a perfectionist with fast learning, ownership, and excellent communication skills. Experienced in optimizing services, designing resilient systems, and delivering clean, maintainable code. Seeking a dynamic role to grow technically, work on impactful projects, and contribute to the company success.

Work Experience

BACKEND SOFTWARE ENGINEER – FEVER   *July 2025 – Present | Madrid*

- Reduced Redis cache calls by ~50%, improving overall system efficiency.
- Enhanced CI/CD pipelines, cutting deployment times and improving code reliability.
- Collaborated with product managers and partners to align solutions with business requirements.
- Refactored legacy code to improve maintainability, reducing technical debt and improving performance.
- Integrated Datadog monitoring, increasing visibility of system health and error tracking.

CYBERSECURITY INTERN – KDPOF   *March 2025 – June 2025 | Madrid*

- Optimized an XDR system built on Wazuh, improving detection accuracy.
- Implemented TLS 1.3 with mutual authentication using OpenSSL, meeting data privacy requirements.
- Developed a biometric data collection platform, integrating secure communication protocols.

VR PROGRAMMER AND DEVELOPER INTERN – C.A.R (CSIC)   *June 2024 – August 2024 | Madrid*

- Rebuilt over 90% of the virtual environment for an experimental VR project.
- Reached intermediat level Unity proficiency in just 2 weeks without prior experience.

ESO – HIGH SCHOOL STUDENTS – PRIVATE TUTOR   *September 2022 – August 2023 | Madrid*

- Tutored 10+ students, leading to measurable improvements in academic performance (up to +2 grade points)

Skills

BACKEND & SYSTEMS: Python, Java, C, TypeScript, Distributed Systems, REST, Microservices
DATABASES: PostgreSQL, MongoDB, ACID, Query Optimization
DEVOPS: Docker, Kubernetes, Git, ArgoCD, Jenkins, CI/CD
MESSAGING: Kafka, RabbitMQ
PATTERNS & ARCHITECTURES: DDD, CQRS, TDD, SOLID, Hexagonal, Event-Driven
SECURITY: TLS 1.3, Certificates & PKI, Cryptography (AES/RSA), Network Analysis (Wireshark, Nmap), Secure Architecture
MONITORING: Datadog, Sentry

Projects

- **2025 (Personal) -** Developed a portable magnetotherapy device capable of generating controlled magnetic fields for tendinitis treatment
- **2025 (Personal) -** Web Portfolio made in JS, HTTP and CSS hosted in github pages
- **2024 (Academic) -** Built a fully pipelined RISC-V CPU supporting ALU ops, memory access, and control flow. Implemented hazard detection and forwarding, validated using simulation environments.
- **2024 (Academic) -** Designed and coded a concurrent HTTP/1.1 server with request parsing, routing, and and proper process synchronization using low-level C. Benchmarked using up to 1000 parallel requests.
- **2023 (Academic) -** Developed a real-time online chess platform with private rooms and matchmaking. Django + WebSockets backend, Vue.js frontend.
- **2023 (Academic) -** Created a full gym management system in Java with GUI built using Java libraries

Education

Universidad Autónoma de Madrid – Madrid   *July 2025*
Bachelor's degree in Computer Engineering

GPA: 3.2/4. Achieved 3 honors distinctions. Focused on systems architecture, distributed systems, and cybersecurity.

Languages

English: C1 level (B2 certified), Russian: A1 level, Spanish: Native