

Luis Lázaró Pimentel

Software Engineer · Multiplatform Application Development (DAM), Backend & Cybersecurity

Madrid, Spain | luislazaropimentel@gmail.com | +34 626 01 57 23 | luislazar-dev.netlify.app | github.com/Thepimen | linkedin.com/in/luis-lázaro-pimentel

PROFESSIONAL SUMMARY

Software developer specialized in software engineering, multiplatform applications (DAM), backend systems, and cybersecurity. Previous university studies in Engineering provided a rigorous foundation in low-level C programming, manual memory management, computational logic, discrete mathematics, and algorithm design. Currently combining these core fundamentals with hands-on enterprise application development (2nd year Higher Diploma in DAM at Instituto Nebrija). Consistent professional track record since 2023 at Cambridge Assessment English coordinating operational security under strict international audit standards. Accredited Level B2 in English via APTIS ADVANCED (British Council) with professional technical fluency.

KEY TECHNICAL PROJECTS

VulnFollowUp · DevSecOps & DORA Compliance Platform (github.com/Thepimen/VulnFollowUp) — Java 17 REST, Android (Room Offline-First), TypeScript/JS SPA (WCAG 2.1 AA), SQL, CVSS v3.1/v4.0

- Enterprise vulnerability management and operational resilience platform aligned with EU DORA (Regulation EU 2022/2554).
- Automated CVSS v3.1/v4.0 validation engine, RBAC authentication with BCrypt/Argon2, concurrent Java backend, and offline-first Android client.

kshield · Linux Kernel eBPF Observability Sentinel (github.com/Thepimen/kshield) — C, eBPF CO-RE (BTF), Go (userspace daemon), Linux Internals, Clang/LLVM, Docker

- Kernel-space intrusion detection and observability agent with measured CPU overhead under 1.5% using eBPF CO-RE probes written in C.
- Instruments `sys_enter_execve`, `sys_enter_connect`, and `sys_enter_openat` tracepoints via zero-copy BPF Ring Buffers to a Go daemon.

ShadowAudit · Distributed Vulnerability & Network Scanner (github.com/Thepimen/ShadowAudit) — TypeScript, Next.js, Express, Python, Redis, Docker, Nmap, Raw Sockets

- Decoupled microservices architecture: Express API gateway orchestrating Redis task queues to isolated Python workers.
- Hybrid scanning engine combining low-level Raw Sockets with structured Nmap multi-stage sweeps.

NanoKV · Distributed Key-Value Prototype (github.com/Thepimen/NanoKV) — Go, Consistent Hashing (FNV-1a), Sharding with Virtual Nodes, Write-Ahead Log (WAL)

- Lightweight distributed key-value prototype built in Go to explore consistent hashing with virtual nodes and append-only WAL crash recovery.

πDiaDownloader · Native Desktop Media Pipeline (github.com/Thepimen/PiDiaDownloader) — Python 3.11+, CustomTkinter, yt-dlp, FFmpeg, PyInstaller

- Native multi-threaded desktop utility for local high-fidelity DASH/HLS audio and video muxing with zero watermarks or third-party tracking.

EDUCATION

Higher Diploma (CFGS) in Multiplatform Application Development (DAM)

Instituto Nebrija (Vocational Education & Training)

2025 – Present

Madrid, Spain

- Core Modules: Data Access (SQL/JDBC), Services & Process Concurrency (sockets, threads), Android Development (PMDM), Interface Design, ERP/Odoo.

University Foundation in Software Engineering

University Degree Level Studies in Engineering

2023 – 2025

Madrid, Spain

- Solid grounding in low-level programming (C, pointers, manual heap allocation), data structures & complexity, discrete mathematics, computational logic, operating systems, and computer networks.

WORK EXPERIENCE

Exam Supervisor & Operational Logistics Coordinator

Cambridge Assessment English

2023 – Present

Madrid, Spain

- Safeguarding, custody, and transportation of confidential examination materials under strict international security and audit standards.
- Coordinating invigilator teams and resolving live hardware/network incidents during computerized exam sessions in high-pressure environments.

TECHNICAL STACK & CERTIFICATIONS

Proficient Languages:	C (low-level & memory), Java (Spring Boot), TypeScript, JavaScript, Python, SQL, Bash.
Foundational / Familiar:	Go (syntax and fundamentals applied to prototypes and background daemons).
Fullstack & Mobile:	Native Android (Room/SQLite), Node.js, Express, Next.js, React, WebSockets, REST APIs, Redis, PostgreSQL, MySQL.
Systems & Security:	Linux (Ubuntu/Debian, WSL 2), Docker, Docker Compose, Git, eBPF (CO-RE), Raw Sockets, Wireshark, Nmap, Wazuh XDR.
Languages & Credentials:	English: Level B2 Accredited — APTIS ADVANCED (British Council) with professional and operational fluency. · Spanish: Native.