Daniel Escalona

Computer Engineer · Full-Stack & Mobile Developer · Flutter, Django, TypeScript, Rust

Contact

San Juan de Los Morros, Guárico, Venezuela
portfolio.daer.dev
linkedin.com/in/daescalona

Skills

Mobile: Kotlin · Jetpack Compose · Swift · Flutter · Dart · React Native · MVVM · Firebase · ESP32 · Ktor Client · Hilt (DI) · Room · Clean Architecture

Backend: Python · Django · Django REST Framework · Flask · Celery · PostgreSQL · Redis · Supabase · REST APIs · GraphQL · Odoo (XML-RPC) · FHIR R4 / SMART on FHIR · Rust · C · End-to-end encryption · Microsoft SQL Server

Frontend: TypeScript · JavaScript · Vue 3 · Astro · HTMX · Tailwind CSS · Figma · UX Design · PySide6 / Qt (QML) · Three.js · Bootstrap · jQuery

AI & automation: Model Context Protocol (MCP) · LLM integration (Anthropic, OpenAI, Gemini, Groq and others) · Playwright · Automation

DevOps & infrastructure: Docker · CI/CD · GitLab CI / GitHub Actions · Cloudflare (DNS, redirects, bot protection, Workers, KV, Pages, R2) · Cloudways · Linux · Networking (Ubiquiti, fiber, wireless) · Nuitka · Email hosting (MXroute, SPF/DKIM) · Domain and DNS management · nginx

Web & marketing: WordPress · Google Search Console · Google Analytics · Digital Marketing · Google Workspace · Google Ads · Divi · Elementor

Practice: Full-Stack Development · Back-End Web Development · Front-End Development · OpenProject ·

Profile

Computer engineer who builds complete products end to end: mobile apps in Flutter and native Kotlin/Swift, Django and TypeScript backends, and the automation around them. At Alcaraván I build an offline-first fleet app on Odoo. At Alpha Co. I gave IT support to a remote marketing agency and kept its client WordPress sites (Divi, Elementor, Cloudways) updated, patched and indexed, and on the side built a FHIR-based patient-feedback platform and a WordPress-to-Astro engine. On my own time I publish open-source tools: an MCP server for OpenProject, an end-to-end encrypted save-sync engine in Rust, and a Wayland idle-time bridge in C. Background in network administration and graphic design.

Experience

Mobile Development Analyst, Sistemas Tecnológicos Alcaraván — Feb 2025 – Present

- Built "Flota", a Flutter fleet-management app for Android and iOS on an Odoo Fleet backend over XML-RPC, with separate manager and driver experiences
- Made Flota offline-first: a local cache plus a write outbox that syncs once a server probe confirms connectivity
- Released Flota through Google Play with dev/prod flavors, in-app updates and Firebase Crashlytics (v1.15, 28 builds)
- Developed the administrative side of "Güirirí Contribuyente", a native Android app for a municipal tax platform (Kotlin, Jetpack Compose, Hilt, Ktor, Room, clean architecture), within a team of five developers
- Implemented admin login and access control by administrative role and system module, plus account management, business-license, vehicle and property-record screens wired to the platform's API
- Fixed tax-declaration forms (including withholding), tablet layouts and QA-reported defects, and prepared versioned releases
- Built and maintained mobile interfaces in Kotlin (Jetpack Compose and XML), Swift, Flutter and React Native
- Turned Figma designs into apps; integrated REST, GraphQL and XML-RPC APIs
- Built communication with ESP32 microcontrollers
- Handled authentication, secure storage and hybrid offline/online apps
- Used the MVVM pattern with ViewModel state management
- Wrote technical documentation, ran cross-platform deployments, took part in code reviews and gave post-launch support

Skills · Kotlin, Jetpack Compose, Swift, Flutter, React Native, Front-End Development, REST APIs, GraphQL, Firebase, MVVM, Figma, ESP32, OpenProject, Teamwork, Dart, Odoo (XML-RPC), Hilt (DI), Ktor Client, Room, Clean Architecture

Information Technology Manager (Freelance), Alpha Co. Marketing & Media — Jan 2026 – Nov 2026

US digital marketing agency

- Gave day-to-day IT support to a fully remote team: accounts, access and 2FA, troubleshooting, and light Google Workspace administration
- Kept the agency's portfolio of client WordPress sites on Cloudways healthy: core, theme and plugin updates and security patches, backups, staging-to-live releases and migrations between servers

Technology Management · Teamwork · IT Support

Languages

Spanish: Native · English: Fluent (C2)

- Set up and managed domains on Cloudflare: DNS, redirect rules, bot protection and security rules, instant indexing, and the DNS side of email (MX, SPF, DKIM and related records)
- Built and fixed pages in Divi and Elementor: layouts, responsive behavior, formatting cleanup and page speed
- Monitored Google Search Console for indexing, sitemap and coverage errors and fixed them on the sites; worked lightly with Google Ads
- Automated the repetitive parts of the job: Batch QC (Playwright plus LLM proofreading of pages into one CSV), a Search Console report analyzer (Python, pandas) and a Flask tool that migrates or removes a WordPress user, Wordfence 2FA included, across every site on the servers
- On the side, built larger internal products: CuRate, a HIPAA-positioned platform that connects to clinics' EMRs over FHIR R4 / SMART on FHIR to automate patient feedback (Django, DRF, Celery, Vue 3), with DevHR, a synthetic EHR for end-to-end testing; and wowastro, an engine that rebuilds WordPress/Divi sites as static Astro sites

Skills · Cloudways, Google Analytics, Automation, Digital Marketing, Technology Management, Python, TypeScript, Django, Django REST Framework, Flask, Celery, PostgreSQL, Redis, FHIR R4 / SMART on FHIR, Vue 3, Astro, LLM integration (Anthropic, OpenAI, Gemini, Groq and others), Playwright, Docker, Cloudflare (DNS, redirects, bot protection, Workers, KV, Pages, R2), WordPress, Google Search Console, IT Support, Google Workspace, Google Ads, Divi, Elementor, Email hosting (MXroute, SPF/DKIM), Domain and DNS management

Full-Stack Developer (Contract), Curex C.A. Oct 2023 – Apr 2025

- Led development and maintenance of SUMI (formerly "Quality Plans"), a Django 4.2 quality and production system: quality plans, test requests and lab tests, production and sales orders, and pre-press artwork review
- Wrote most of the codebase (about 330 of 416 commits), with full change history and auditing, role-based actions and filters
- Deployed it on Microsoft SQL Server and a Windows server behind nginx and waitress, with auto-start scripts
- Made large improvements to the system's performance and user experience
- Built a Python batch tool that generates print-ready corporate ID cards for the group's five companies, with a vector QR code per employee in each company's colors

Skills · Full-Stack Development, Back-End Web Development, JavaScript, Python, UX Design, Django, Microsoft SQL Server, Bootstrap, jQuery, nginx

Network Administrator, Abraham Network C.A. Mar 2023 – Sep 2023

- Monitored and managed wireless and fiber networks so customer services kept running
- Gave specialized technical support to customers
- Supported internal infrastructure and equipment
- Created the company's visual identity

Skills · Networking (Ubiquiti, fiber, wireless)

Computer Engineering Intern, Curex C.A. Oct 2022 – Feb 2023

- Built a system to digitize and update the Quality Assurance department's "Quality Plans" document, after studying the internal production processes

Skills · JavaScript, Python, UX Design

Projects

SUMI: quality and production tracking (Curex) Oct 2022 – Apr 2025

- Django system that replaced a packaging manufacturer's paper quality plans: test requests, lab tests (lamination, cutting, bobbins), production orders, sales orders and pre-press artwork review
- Full audit history (django-simple-history), filters, rich-text notes and role-based actions

- Microsoft SQL Server on Windows behind nginx and waitress; about 330 of 416 commits

Skills · Python, Django, Microsoft SQL Server, Bootstrap, jQuery, nginx

Corporate ID card generator (Curex) Oct 2024 – Oct 2024

- Python batch tool that turns the HR spreadsheet into print-ready ID cards for five companies
- Shortens long Spanish names to fit, picks each company's template, stamp and colors, and generates a vector QR code per employee in the brand color

Skills · Python

NEXO: IT asset and network management May 2026 – Present

- Django 6 platform for an IT team: hardware catalog, units and movement history, consumables, software licenses, service billing, workers and workspaces
- Network tools: IPAM (VLANs, subnets, addresses), device discovery and topology, a browser SSH terminal, Wake-on-LAN and ping
- Companion desktop agent in Python (asyncssh, websockets, PySide6/QML tray app) that runs SSH sessions, ping, Wake-on-LAN, ARP scans and Ed25519-signed command batches from the technician's own machine
- Agent compiled with Nuitka into native packages for Linux (apt/dnf repositories), macOS and Windows, built and published by GitLab CI
- Interactive floor-plan editor with walls, desks and undo; English/Spanish i18n; 12 apps documented by 50+ written specs

Skills · JavaScript, Python, UX Design, Networking (Ubiquiti, fiber, wireless), Django, Tailwind CSS, PySide6 / Qt (QML), Nuitka, GitLab CI / GitHub Actions

LemuSync: encrypted emulator save sync, Oct 2026 – Present
github.com/DanielEsc0911/lemusync

- Open-source (MPL-2.0) app that syncs emulator saves across devices through storage the user owns (S3, Cloudflare R2, WebDAV, SFTP), with no central server
- Rust workspace of nine crates (core, crypto, store, engine, daemon, IPC, CLI) with ChaCha20-Poly1305 and Argon2 end-to-end encryption, leases and version history so a save is never silently lost
- Flutter desktop/mobile UI over flutter_rust_bridge; first end-to-end milestone passed on two Linux machines through R2, including a kill -9 mid-restore with no corruption

Skills · Flutter, Dart, Rust, Cloudflare (DNS, redirects, bot protection, Workers, KV, Pages, R2), Linux, End-to-end encryption

Gym Lector Studio Oct 2026 – Present

- Offline Android app (Flutter) that digitizes a speed-reading training exercise: words seen through a moving tachistoscope window, then a recall test
- Checks on the device, through the microphone, that the user is humming or singing during the exercise; no network code, analytics or audio storage
- Spec-first and test-first development with clean domain/data/UI layers

Skills · Flutter, Dart

Tabby: Telegram sales and credit bot Sep 2026 – Present

- Multi-tenant, white-label Telegram bot for small shops: catalog, purchases on credit, payment reports and payday reminders
- Runs entirely on Supabase: business rules as atomic Postgres functions, one Edge Function serving every bot, pg_cron reminders
- Bot tokens encrypted in Supabase Vault, webhooks authenticated by hashed secret tokens, RLS with all public access revoked, deduplicated updates

Skills · TypeScript, PostgreSQL, Supabase

OPerator: MCP server for OpenProject, operator.daer.dev Jul 2026 – Present

- Open-source MCP server (published on npm, MIT) that lets coding agents such as Claude Code read and update OpenProject work packages, triage notifications, log time and follow a team's written conventions
- Safety model: the agent cannot close work, and only the user's own messages can ask for changes; text inside tickets is treated as data
- Built its landing page in Astro: two locales, no backend, strict Content-Security-Policy, Lighthouse CI budgets and Playwright tests

Skills · OpenProject, TypeScript, Astro, Model Context Protocol (MCP), Playwright, GitLab CI / GitHub Actions

Abraham Network website and email, abrahamnetwork.ve Jun 2026 – Nov 2026

- Freelance website for a rural fiber and wireless ISP in Falcón and Yaracuy, Venezuela: plans and pricing by municipality and a coverage checker
- Django 5.2, HTMX and Tailwind; hardened with CSP nonces, rate limiting, login lockout and an admin honeypot; Docker and GitLab CI deployment
- Set up the company's full email service on MXroute: mailboxes on its own domain, the MX, SPF and DKIM records for reliable delivery, and webmail plus IMAP/SMTP access on staff computers and phones

Skills · UX Design, Django, Redis, HTMX, Tailwind CSS, Docker, Email hosting (MXroute, SPF/DKIM)

hubstaff-kwin-bridge, github.com/DanielEsc0911/hubstaff-kwin-bridge Oct 2026 – Oct 2026

- Small C daemon that makes the Hubstaff time tracker record keyboard and mouse activity on KDE Plasma (Wayland), where it previously always reported 0%
- Implements GNOME's org.gnome.Mutter.IdleMonitor D-Bus interface on KDE using the standard ext-idle-notify-v1 Wayland protocol; open source (MIT) with CI

Skills · C, Linux

Deskflow (open-source contribution), github.com/deskflow/deskflow Oct 2026 – Present

- Contributions to Deskflow, the open-source keyboard and mouse sharing app: translations, testing and pull request reviews

Skills · Linux

Daya 2026: 3D scroll invitations, daya2026.daer.dev 2026

- Party invitations as a 3D paper scroll (Three.js) with one private link per guest, an admin editor with live preview, RSVP on the scroll and Google Calendar / .ics export
- Runs on a Cloudflare Worker with KV storage and static assets on a custom domain, ported from a standard-library Python server with the same API
- Signed session cookies, PBKDF2 password hashes, CSRF checks and rate limits; portrait layout for phones

Skills · Three.js, JavaScript, Python, Cloudflare (DNS, redirects, bot protection, Workers, KV, Pages, R2)

Education

Computer Engineer (Ingeniero en Informática), Universidad Nacional Experimental de los Llanos Centrales "Rómulo Gallegos" Oct 2017 – Feb 2024

Certifications

Problem Solving (Basic), United Latino Students Association Apr 2025
Credential ID C16C4D1C7279