

## Nehemias Feliz Ferreras

Software Engineer | Backend Developer (Python) | Santo Domingo Este, República Dominicana | info@nehemiasfeliz.com  
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### TECHNICAL SKILLS

- **Backend & Logic:** Python (Flask, FastAPI), C#, PHP, Object-Oriented Programming (OOP).
- **Data Architecture:** SQL Server (T-SQL), MySQL, SQLite, relational schema design, and query optimization.
- **DevOps & Infrastructure:** Docker & Docker Compose (Containerization), Linux (Debian), Server Management, Reverse Proxy, SSL, Git/GitHub.
- **Web & Networking:** RESTful API consumption, WordPress, Networking & Communications, DDNS, MergeFS (Storage Virtualization).
- **Languages:** English (Bilingual / MESCOT Immersion Program).

### ENGINEERING PROJECTS

#### Smash Bros. Tournament Engine (Fullstack Developer)

Link: <https://smash.nehemiasfeliz.com/>

- **Container Architecture:** Orchestrated a multi-container environment using **Docker Compose**, decoupling application logic (**Python/Flask**) from data persistence (**SQLite**) to ensure parity between development and production environments.
- **Complex Business Logic:** Engineered a tournament engine implementing algorithms for bracket management, player registration, and real-time match result validation.
- **Data Modeling:** Designed a relational database structure to handle complex relationships between users, tournaments, and combat statistics, utilizing models.py to enforce data integrity.

#### Scalable Self-Hosted Infrastructure & Media Engine

Link: <https://media.nehemiasfeliz.com>

- **Infrastructure Orchestration:** Designed and deployed a containerized ecosystem using **Docker** and **Docker Compose** on **Debian**, managing multiple services (Jellyfin, Shoko, qBittorrent) with a focus on high availability and resource efficiency.
- **Network & Security:** Implemented a secure external access layer using **Caddy Server** as a Reverse Proxy with automatic **SSL/TLS encryption**. Configured **Cloudflare DDNS** and custom networking to bypass ISP dynamic IP limitations without compromising security.
- **Storage & Data Management:** Optimized storage utilizing **MergeFS** for virtual disk pooling and implemented automated content management pipelines, integrating metadata providers (AniDB) through API-driven services (Shoko Server).
- **Hardware Optimization:** Configured **hardware-accelerated transcoding (Intel QuickSync)** by mapping device drivers into Docker containers, significantly reducing CPU overhead and improving streaming performance.

### PROFESSIONAL EXPERIENCE

#### IT Operations & Application Support | Feliz Software Solutions SRL | 01/2024 – Present

- Provide Level 2 technical support for enterprise software, diagnosing and resolving incidents in production environments.
- Collaborate on software patch implementation and updates, ensuring high service availability for corporate clients.

#### Technical Support & Web Maintenance | Barna Management School | 03/2021 – 04/2023

- **Web Development:** Responsible for the maintenance and updating of the institutional portal (WordPress), optimizing site performance and security.
- **Infrastructure:** Managed campus network and communication systems, resolving critical hardware and software failures for administrative and faculty staff.

### ACADEMIC EDUCATION

- **B.S. in Software Engineering** | APEC University | 2019 – 2025
- **Associate's Degree in Software Development (Cum Laude)** | ITSC | 2016 – 2018

### CERTIFICATIONS & ACHIEVEMENTS

- [CS50's Introduction to Computer Science](#) | Harvard University | 2025
- **Ibero-American Cyber Security Challenge (Colombia)** | DR Representative - OAS | 2018