

Federico Martinez Fernandez

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SUMMARY

Entry-level software engineer with hands-on experience building backend services, mobile applications, and full-stack projects using Go, Swift, React Native, and Python. Strong foundation in Linux systems, APIs, databases, and cloud infrastructure.

EDUCATION

New York Institute of Technology — Manhattan, NY

Graduated May 2026

Bachelor of Science in Information Technology

SKILLS

- **Languages:** Go, Swift, Python, JavaScript, Bash
- **Mobile:** Swift (UIKit, SwiftUI, Core Data), React Native, Flutter
- **Backend:** REST APIs, PostgreSQL, MySQL, authentication systems
- **Infrastructure:** Debian Linux (10 years), NGINX, VPS administration, Prometheus, Grafana
- **Networking:** WireGuard, DNS, Cisco switches, Unifi APs; Personal Autonomous System ([AS209245](#))
- **Hardware:** PCs, ESP8266, ESP32, Raspberry Pi, Arduino

PROJECTS

QR Inspector — iOS App apple.co/4tYooDs

- Built and published a QR scanner application on the App Store.
- Let's you follow dynamic QR codes and URL shorteners to see where they send you before opening them.
- Used Swift, CoreData, UIKit, SwiftUI, and AVFoundation

Water Meter System — IoT Monitoring Project

- Created a real-time water usage monitoring system using ESP8266 sensors and a Python backend.
- Developed a native SwiftUI iOS app displaying live and historical usage data.

Hammerspace — Cloud Storage App github.com/mtzfederico/Hammerspace

- End-to-end-encrypted cloud storage: React Native mobile front-end, Go backend, Cloudflare R2 storage.

Smart Login Project github.com/mtzfederico/SmartLoginProject

- Magstripe-based attendance system using student ID cards. React front-end, Go backend.

Other Open-Source Projects & Tools

- SwiftDNS: DNS client & parser library in Swift. github.com/mtzfederico/swiftdns
- Cloudflare DDNS Client (Go, systemd timers). github.com/mtzfederico/ddns-cf
- PasswordDoodler: MySQL-backed password manager (Go). github.com/mtzfederico/PasswordDoodler

EXPERIENCE

Infrastructure & Backend Projects

2016 – Ongoing

- Managing Debian VPSs running Web, DNS, and Database services.
- Perform infrastructure monitoring, uptime monitoring, log analysis, and system maintenance.
- Built custom monitoring notification tooling with a Go backend and iOS app.
- Operate and maintain a personal Autonomous System (AS209245) with IPv6 allocation and BGP routing

Anahuac Organización Constructora — Construction & Infrastructure Firm

March - April 2024

- Diagnosed and resolved issues with Cisco switches and configured Unifi access points to improve network reliability and wireless connectivity.

Independent Technology Support

2016 - Ongoing

- Provide pro bono technical support to friends and community members: troubleshoot and resolve connectivity issues involving routers, switches, wireless access points, and other electronics.

ADDITIONAL

- NYC Mesh Volunteer
- Languages: Spanish (native), English (fluent), German (basic)
- USA Work permit - Optional Practical Training for 1 year and then 2 year STEM extension
- Mind Builders — Robotics Team Leader & Programming Class (2017 – 2022)