

Miguel Fernandez

Full Stack Software Engineer | Backend Engineer

Santiago del Estero, Argentina

miguelfernandez.m.f.8998@gmail.com | +54 9 3854716917

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

Full Stack Software Engineer with professional experience designing, developing and maintaining scalable web applications, backend services, browser automation and web scraping platforms. Experienced in TypeScript, JavaScript, Python, Node.js, NestJS, React, Next.js, PostgreSQL and Docker. Strong background in REST API development, authentication, software architecture, reverse engineering, browser automation and production support. Currently working at AUTOScraping, contributing to commercial data extraction platforms, frontend development, mobile application reverse engineering, and technical education by designing and delivering professional web scraping training programs. Passionate about solving complex engineering problems, writing maintainable code and continuously improving software quality.

Core Competencies

- Backend Development
- Full Stack Development
- REST API Design
- Web Scraping
- Browser Automation
- Reverse Engineering
- Authentication & Authorization
- Software Architecture
- Database Design
- Performance Optimization
- Technical Leadership
- Technical Documentation

Professional Experience

AUTOScraping — Full Stack Software Engineer

February 2025 – Present

- Designed and developed web scraping solutions using Python and browser automation technologies for commercial data extraction projects.
- Analyzed anti-bot protection mechanisms and implemented bypass strategies to improve crawler reliability and extraction success rates.
- Contributed to CrawlOS by developing frontend features, improving usability and collaborating with cross-functional teams.
- Maintained and enhanced the MetricFlow platform by resolving production issues, implementing improvements and increasing application stability.
- Worked within the Data Factory engineering team performing reverse engineering of Android applications to analyze private APIs and optimize data acquisition workflows.

- Produced technical documentation and learning material for AUTOScraping Academy.
- Lead instructor and content creator for the Web Scraping Essentials program while contributing to the Professional and Expert curricula.
- Collaborated with developers, product teams and stakeholders to deliver production-ready software solutions.

Selected Projects

- **Sommeliers Web (Tech Lead)**
Designed and led development of a full-stack e-commerce platform featuring authentication, Stripe payments, Cloudinary integration and product management.
- **Amazon Product Scraper (Automation)**
Built a configurable Puppeteer-based scraping pipeline supporting pagination, browser configuration and Excel export.
- **DockerLabs Scraper (Python)**
Developed a Python data extraction solution using Requests and BeautifulSoup to collect and normalize structured datasets.
- **Rick and Morty Web (Full Stack)**
Implemented authentication, JWT, REST APIs, pagination and user management.
- **Point of Sale (Desktop)**
Developed a desktop POS application using Java and MySQL for inventory and sales management.

Technical Skills

Programming Languages: TypeScript, JavaScript, Python, Java

Frontend: React, Next.js, Redux, HTML5, CSS3, Tailwind CSS

Backend: Node.js, NestJS, Express, REST APIs, JWT, Prisma ORM, Sequelize

Databases: PostgreSQL, MySQL, SQLite

Automation: Puppeteer, Selenium, Playwright, BeautifulSoup, Requests

DevOps & Tools: Docker, Git, Linux, Nginx, Postman, GitHub

Education

- Bachelor's Degree in Information Systems — Universidad Nacional de Santiago del Estero (2018 – Present)
- Henry Bootcamp — Full Stack Web Development (700 hours, 2023)

Languages

- Spanish — Native
- English — B1 (Intermediate, continuously improving through professional use and self-study)

Professional Highlights

- Professional experience building commercial software products.
- Experience in frontend, backend and automation projects.
- Hands-on experience with reverse engineering mobile applications.
- Designed and delivered technical training for web scraping engineers.
- Strong adaptability across different technologies and development environments.