Hernan Ezequiel Di Giorgi

Software Engineer | Site Reliability Engineer | Web Scraping Engineer

Buenos Aires, Argentina (UTC-3) | Remote only | B2B / C2C through US LLC (Wyoming, USA)

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Summary

Software Engineer and Site Reliability Engineer focused on high-reliability, high-availability backend systems. Experienced in forward and reverse engineering with a bias toward simple, maintainable solutions. Fast learner with strong communication skills. Passionate about hard problems, functional programming, highly concurrent systems, distributed systems, and AI.

Technical Skills

- **Languages & Paradigms**: Polyglot — proficient in both object-oriented and functional programming. Python, C++, Rust, Java, Erlang, Go, JavaScript, TypeScript.
- **Systems & Infrastructure**: CI/CD pipelines, Kubernetes, microservices, Infrastructure as Code (Terraform, Pulumi, Ansible). Cloud platforms: Google Cloud (GCP), AWS.
- **Web Scraping & Reverse Engineering**: Developed and maintained highly reliable, production-grade web scrapers, controlling behavior from OSI Layers 3 through 7. Java/Kotlin decompilation, Frida instrumentation, custom browser forks.

Education

- **Bachelor's Degree in Computer Software Engineering** — 5-year degree
  Universidad de Moron (UM)
- **Associate's Degree in Computer Systems Analysis** — 3-year degree
  Universidad de Moron (UM)
- **Electro-Mechanical Technician**
  Deutsche Schule Moreno (ETAM)

Experience

- **Algorithmic Castle Software LLC** — Self-employed
  Software Engineer — *Mar 2026 – Present*
  - **Founding & Consulting**: Founded and run Algorithmic Castle Software LLC (Sheridan, WY) — a software consulting company.
  - **Games & Web Apps**: Publishing games and web applications, with game development in Godot.
- **Argyle** — Remote
  Site Reliability Engineer — *Jan 2025 – Feb 2026*
  - **Kubernetes**: Managed Google Cloud GKE clusters: service provisioning, CI/CD pipelines, Traefik ingress rules, and custom Traefik middleware.
  - **Distributed Rate Limiting**: Designed a distributed rate limiter using a custom sync protocol with snapshot delta-compression for high-frequency updates, controlling cluster-wide ingress and service-specific egress.
  - **Infrastructure as Code**: Terraform, Pulumi, Ansible for reproducible infrastructure provisioning and config management.
- **Argyle** — Remote
  Software Engineer — *Oct 2019 – Dec 2024*
  - **Reverse Engineering**: Java/Kotlin decompilation, Frida instrumentation of Android/web apps. JS VM-based deobfuscation. Custom LSPosed and Magisk modules. Ghidra offset retrieval.
  - **Python**: Django, FastAPI, SQLAlchemy, headless browsers, OpenCV, OCR, microservices, web scraping. Built and operated a distributed Raspberry Pi cluster integrated with internal services.
  - **C / C++ / Rust**: Custom HTTP/1.1 and HTTP/2 clients using OpenSSL/BoringSSL. Firefox modifications. Custom Chromium fork development.
  - **TypeScript / JavaScript / Node.js**: Frontend instrumentation libraries and full-stack type-safe applications with Express, Zod, DrizzleORM.
  - **Go, MongoDB, PostgreSQL, Elasticsearch**: Trademark and legal entity search engine indexing over 1M+ companies in the US market.
  - **Java**: CDP reverse proxy/multiplexer for managing stateful, persistent browser sessions at scale.
- **IGreator** — Self-employed
  Full-Stack Developer — *Oct 2018 – Jan 2019*
  - **Managed WordPress Service**: Designed, built, and sold a custom managed WordPress hosting service. Provisioned Vultr servers via a modified Blesta billing platform. Stack: Scala, Scala.js, Nginx, PHP 7, Apache, PageSpeed, Ansible.
- **Lambda Class** — Buenos Aires, Argentina
  Erlang / Real-Time Bidding Developer — *Dec 2017 – Aug 2018*
  - **Erlang**: Implemented low-latency, high-availability RTB systems. Optimized services from 2k RPS to 17k RPS per server.
  - **Elixir**: Built a WordPress replacement prototype with Elixir/Phoenix, Docker, Redis, and PostgreSQL on ARM servers.
  - **AWS**: Deployed Erlang services to AWS Elastic Beanstalk with DynamoDB, CloudWatch, and Kinesis Firehose integrations.