Nicolas Cleik

Software Engineer | Python, Node.js & SQL

 Aracaju, Brazil   nicolas@cleik.dev   cleik.dev   /in/nicolascleik   /nicolascleik

PROFESSIONAL SUMMARY

Software Engineer bridging **Academic Research** and **Technical Leadership**. Specialized in designing resilient systems with a focus on preventing technical debt through **TDD** and solid architectural patterns (Clean Architecture). Practical experience in polyglot architectures (**Python** for data processing and **Node.js** for scalable APIs) and Web Performance Optimization (**WPO**). Dedicated to translating complex business requirements into robust, high-value software solutions.

PROFESSIONAL EXPERIENCE

Engplay (SaaS)   *Jul 2025 – Dec 2025*
Squad Lead & Full Stack Developer

- **Technical Leadership:** Managed Squad 28 (Porto Digital & UNIT partnership), conducting agile rituals and implementing task rotation to reduce knowledge silos and increase team resilience.
- **Churn Reduction:** Architected the "Retention Engine," a critical feature with "Soft Landing" logic (scheduled cancellation) that directly impacted client retention rates.
- **Software Engineering:** Refactored legacy Vanilla JS codebase, eliminating redundancy (DRY), modularizing components, and optimizing application load time.
- **Accessibility:** Implemented native Text-to-Speech APIs and integrated with VLibras for full compliance.

FEATURED PROJECTS

Hybrid ETL & API System (Price Monitor)   **Python, Node.js & SQLite**
Polyglot Architecture & Data Pipeline   View Code

- Engineered a hybrid system combining **Python** for heavy ETL operations and **Node.js** for high-concurrency API data distribution.
- Fault-tolerant pipeline implementation with **SQL Transaction Rollback** and 95% unit test coverage (Pytest).

Layered Enterprise API (Inventory Mgmt)   **Node.js & MySQL**
Scalable Corporate Backend   View Code

- Strict implementation of **Layered Architecture** (Controllers, Services, Repositories) for total decoupling of business rules.
- Performance optimization using **Connection Pooling** and streams for large-scale report processing.

SaaS Retention Engine   **JavaScript & Firebase**
Churn Reduction Strategy   View Demo

- Strategic cancellation flow featuring a "Soft Landing" architecture (72h scheduled termination) for customer recovery.
- Integration with **Firestore** for real-time capture and analysis of qualitative user feedback.

High-Performance Portfolio (WPO)   **Vanilla JS & Cloudflare**
Web Performance Engineering   View Demo

- WPO case study achieving a perfect **100/100 Lighthouse score**.
- Framework-less architecture featuring a custom JSON rendering engine to decouple data from the interface.

TECHNICAL SKILLS

- **Languages:** Python (ETL, Pytest), JavaScript (Node.js, ES6+), SQL (MySQL, SQLite).
- **Engineering:** Clean Architecture, Layered Arch, System Design, WPO (Web Performance), TDD.
- **DevOps & Tools:** Git, CI/CD Actions, Linux, Cloudflare.
- **Soft Skills:** Technical Leadership, Mentorship, Assertive Communication, Advanced English.

EDUCATION AND CERTIFICATIONS

B.Sc. in Computer Science   *Universidade Tiradentes (Expected: 2029)*

Relevant Certifications:

- **Software Engineering** - Alura (60h)
- **DevOps** - Alura (48h)
- **Oracle Database PL/SQL** - Federal Institute of Rio Grande do Sul (20h)
- **Microservices Architecture & RabbitMQ** - Alura (24h)

LANGUAGES

Portuguese: Native | **English:** Advanced | **German:** Basic