ILTON PINTO SEIXAS

Software Architect & Engineer | Java, Go, Rust, and TypeScript

Manaus, AM, Brazil | contact@iltonseixas.com | +55 (92) 99198-4762 | linkedin.com/in/iltonseixas

Brazilian citizen | Open to relocation and remote work

PROFESSIONAL SUMMARY

More than 10 years of experience designing, evolving, and operating enterprise and distributed systems, cloud-native and edge-first, focused on low latency, scalability, resilience, and operational efficiency. More than 8 years in Java and the Spring ecosystem, complemented by Go, Rust, and TypeScript in concurrent services, high-performance components, and applications on Node.js, Bun, and edge platforms.

Experience with microservices, event-driven architectures, edge runtimes, and WebAssembly (WASM), weighing trade-offs among consistency, throughput, operating cost, and distributed complexity. Consistent practice of Clean Architecture, SOLID, DDD, TDD, and secure-by-design.

TECHNICAL SKILLS

Languages & Runtime Engineering

- Java — enterprise systems and back-end services, with Maven
- Go — concurrent services, distributed APIs, and low-latency workloads
- Rust — performance-oriented components, concurrency, and memory safety
- TypeScript — modern applications running on Node.js, Bun, and edge runtimes

Frameworks

- Back-end: Spring Boot, Spring Data, Spring Security, Spring Cloud, and Spring Batch (Java); NestJS, Fastify, and Hono (TypeScript); Gin (Go); Actix Web and Axum (Rust)
- Full-stack web: Remix, Next.js, and Astro, with SSR, SSG, and streaming
- Front-end: React, Angular, and Vue.js, focused on accessibility and performance
- Desktop: Tauri (Rust)

Architecture & Systems Engineering

- Distributed systems, modular monoliths, microservices, event-driven architectures, CQRS, and edge-first design
- WebAssembly (WASM) applied to edge runtimes and distributed workloads
- REST, gRPC (with Protocol Buffers), GraphQL, and tRPC APIs focused on performance, reliability, and sustainable evolution
- Clean Architecture, DDD, SOLID, TDD, and domain-driven design
- Observability, fault tolerance, resilience, and production operations
- Security applied from the start: secure-by-design, OWASP Top 10, JWT and OAuth2, hardening, and dependency analysis

Cloud & Infrastructure

- Cloudflare — Workers (including RPC and service bindings for direct Worker-to-Worker calls), Durable Objects, Pages, R2, KV, D1, CDN, WAF, and DDoS protection
- AWS — EC2, S3, RDS, Lambda, ECS/Fargate, and CloudWatch
- OCI — Compute, Functions, Object Storage, NoSQL Database, Queue, and WAF
- VPS servers — server administration and DevOps
- Containers (Docker and Kubernetes), Infrastructure as Code (Terraform), CI/CD (Git, GitHub Actions, and GitLab CI/CD), and automated deployments

Data & Performance

- PostgreSQL, MySQL, Redis, and MongoDB
- Messaging: RabbitMQ, Kafka, and Cloudflare Queues
- Data modeling for scale and distributed workloads
- Query optimization, caching, and latency reduction

PROFESSIONAL EXPERIENCE

Founder & Software Architect — 2014 – Present

Arkana Studios (software house) — Manaus, AM, Brazil — Multiple industries

Independent work for clients across multiple industries in architecture, development, and operation of systems, from modular monoliths to microservices, on cloud, edge, and VPS servers.

Architecture and platform

- Designed and evolved applications using Java, TypeScript, Go, and Rust, from modular monoliths to microservices, building REST, gRPC (Protocol Buffers), GraphQL, and tRPC APIs and modern applications focused on performance, scalability, and operational reliability.
- Implemented edge-native architectures using Cloudflare Workers (including RPC and service bindings), Pages, KV, D1, Queues, R2, and Durable Objects, reducing latency and operating costs for applications with a geographically distributed audience.
- Provisioned and operated infrastructure on Cloudflare, AWS, OCI, and VPS servers, including server administration, observability, WAF, DDoS protection, TLS certificates, hardening, and continuous monitoring.

Delivery, performance, and security

- Built CI/CD pipelines with staging environments, automated deployments, and rollback strategies, speeding up delivery cycles and reducing production incidents.
- Optimized critical workloads by restructuring queries and applying Redis caching strategies, reducing database load and improving response times in high-traffic applications.
- Applied defensive security practices from the architecture phase, including threat modeling, input validation, dependency review, and strategies aligned with the OWASP Top 10.

AI-ASSISTED DEVELOPMENT & SECURITY

Daily user of Claude Code as an engineering partner: the engineer specifies, reviews, and decides, and quality and security gates determine what gets merged. Always respecting each client's confidentiality policies.

- Workflow: planning before code, TDD, code and pull-request review, subagents, and versioned project instructions, with pre-commit hooks that block commits that fail tests, linting, or type checks.
- Integrated tooling: MCP servers (Context7 for current documentation, Serena for semantic code navigation, Playwright for browser testing), language servers for Java, Go, Rust, and TypeScript, and code-review and pull-request review plugins.
- Software security: secret scanning with Gitleaks, static analysis with Semgrep and SonarQube, dependency and infrastructure-as-code scanning with Trivy and OSV-Scanner, security reviews of changes and insecure configurations (Trail of Bits' differential-review, insecure-defaults, and sharp-edges), and Rust and Go dependency auditing (cargo-audit, cargo-deny, and govulncheck).
- Process automation: AI-assisted automation of tools and processes, on local systems, VPS, or the cloud, with Python for scripting and integrations.

EDUCATION

Bachelor's Degree in Computer Science

LANGUAGES

- Portuguese — Native
- English — Upper Intermediate (B2), with advanced technical reading of documentation, RFCs, and articles