Reginaldo dos Santos

Senior Full-Stack Software Engineer | Halifax, NS, Canada | (902) 471-0482
Canadian Citizen (TN Visa Eligible - No Sponsorship Required)
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Professional Summary

Highly accomplished Senior Full-Stack Engineer with 15+ years of experience specializing in high-performance SaaS architecture and cloud-native solutions. Expert in bridging legacy system modernization (PHP/DDD) with modern, scalable infrastructure (Go/Golang, Node.js, AWS). Proven track record of driving measurable business impact—including a 30% reduction in digital piracy and 15% revenue growth—through metrics-driven experimentation and AI integration. Skilled in leading technical teams and breaking down complex problems into testable Proofs-of-Concept (POCs) within Agile environments.

TECHNICAL PROFICIENCIES

- Languages: Go (Golang), JavaScript/TypeScript, PHP (Modernization/DDD)
- Frameworks: React, Next.js, Node.js
- Cloud & DevOps: AWS (S3, SQS, ECS, Lambda), Google Cloud, Terraform (IaC), Docker
- Architecture: Event-Driven Architecture, Microservices, Domain-Driven Design (DDD), Serverless
- Database: PostgreSQL (Optimization/Indexing), MySQL (Multi-Tenant SaaS), MongoDB, DB2
- AI & LLMOps: LLM Integration, RAG (Retrieval-Augmented Generation), AI Assistants, OpenAI API

PROFESSIONAL EXPERIENCE

REDspace | Senior Software Engineer (February 2022 – Present)   Halifax, NS, Canada

- **Client: SoundCloud (Media Streaming Team)** (Go, AWS, Terraform)
    - Architected a high-concurrency video encoding and packaging backend using Go and AWS ECS, significantly improving processing throughput.
    - Implemented an innovative DRM solution that resulted in a **30% reduction in piracy**, mitigating financial risk and protecting copyrighted content.
    - Designed a proxy-based middleware solution to enforce internal SSO access, ensuring enterprise-grade security for internal tools.
- **Client: The New York Times** (Node.js, TypeScript, AWS Elemental, AI)
    - Re-engineered the video encoding pipeline and subtitle creation service using Node.js and Infrastructure as Code (IaC) with Terraform.
    - Developed an AI-powered subtitle service leveraging LLMs for initial transcription, **reducing manual subtitle creation time by 55%** and accelerating content time-to-market.
    - Spearheaded the development of an event-driven multimedia factory using AWS SQS and Lambda, resulting in a **10% improvement** in media processing efficiency.
- **Client: Confidential (Digital Publishing / E-Commerce)** (Go)
    - Built a custom subscription platform for a digital bookstore using Go, enabling new revenue streams, which led to a **15% increase in monthly recurring revenue (MRR)** within the first quarter.
- **Client: MediaValet** (React, Next.js)
    - Developed a custom video clipping frontend synchronized with Shaka Player, resulting in a **5% increase in user engagement** through enhanced UX and precise content manipulation tools.

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Proposify | Senior Software Engineer (June 2019 – February 2022)   Halifax, NS, Canada

- **SaaS Architecture Modernization (PHP & DDD):** Led the API-First transformation of a monolithic multi-tenant SaaS platform. Refactored **85% of the legacy PHP backend** into a robust service layer following SOLID principles and Clean Architecture.
- **Quality Engineering & Testing:** Championed a culture of automated testing, increasing unit test coverage from 0% to **3,000+ tests** within eight months, enabling faster, metrics-driven deployment cycles.
- **Scalability & Performance:** Designed MySQL database architecture to support high-traffic multi-tenancy, optimizing indexing and query performance.
- **Frontend Modernization:** Spearheaded the strategic migration to React for new features, improving developer productivity and enabling a component-driven UI library.

IBM | Senior Software Engineer (*January 2015 – May 2019*)   *São Paulo, Brazil*

- **Leadership & Development:** Led a cross-functional team of 9 engineers in the development of the "Enterprise Portfolio Management" dashboard (Node.js/React), delivering a high-availability solution used by executive leadership.
- **Testing Strategy:** Established rigorous testing protocols using Jest (frontend) and Mocha (backend), significantly reducing bug reports during User Acceptance Testing (UAT).
- **Architecture:** Formulated solution architecture documents and led workshops with stakeholders to define technical trade-offs for cloud-based analytical tools.
- **Business Intelligence Integration:** Contributed to a new BI department, migrating critical financial reports from Hyperion to Cognos. Optimized SQL queries and ETL processes to ensure SLA compliance for global clients.

Self-Employed / Consultant | Full-Stack Developer (*February 2002 – February 2009*)   *São Paulo, Brazil*

- **Process Optimization:** Developed a custom banking balance validation tool that **reduced processing time from 16 hours to 2 hours.**
- **Financial Systems:** Built a tax payment generator that resulted in a **25% cost reduction** in the first month by aligning with government compliance standards.

ADDITIONAL SKILLS

- **Growth Mindset:** Strong focus on moving business metrics through A/B testing and data-driven product decisions.
- **Home Lab & Self-Learning:** Maintains a personal server lab for practicing advanced container orchestration (Kubernetes), micro-frontends, and event-driven architecture.

EDUCATION AND CERTIFICATION

- **Postgraduate Certificate in AI and Automation** (MEC Accredited) - Faculdade de Tecnologia Rocketseat
- **Bachelor of Computer Science** - Universidade Metodista de São Paulo
- **IBM Certified Application Developer – Cloud Platform V1**