

William Moreira da Silva

Senior AI Software Engineer — Software Architecture — AWS

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Professional Summary

Software Engineer transitioning into AI Engineering, with 11+ years of experience designing, building, and evolving enterprise software, distributed systems, and cloud-native applications. Experienced across multiple technology ecosystems, including Python, Elixir, Go, Java, Node.js, React, SQL/NoSQL, and AWS. Currently leading the architecture and development of AI-powered products, intelligent automation, RPA, and event-driven solutions. AWS Certified Developer with strong foundations in backend engineering, system architecture, APIs, microservices, serverless computing, infrastructure as code, and technical leadership. Proven ability to connect business requirements, software architecture, AI capabilities, and engineering execution.

Technical Skills

AI Engineering & Automation: LLM, Generative AI, RAG, AI Agents, AI-powered Applications, Embeddings, Vector Search, Prompt Engineering, Intelligent Automation, n8n, AI-assisted Software Engineering

Programming: Python, Elixir, Go, Java, Node.js, TypeScript, JavaScript, React, React Native

Cloud & Architecture: AWS, Amazon Bedrock, Serverless, Microservices, Distributed Systems, Event-Driven Architecture, REST APIs, GraphQL

Data & Infrastructure: SQL, NoSQL, PostgreSQL, pgvector, Terraform, CI/CD, Infrastructure as Code

Engineering & Leadership: Software Architecture, System Design, Clean Code, Automated Testing, Code Review, Technical Leadership, Mentoring

Employment & Experience

Lunar IA	Remote <i>AI Engineer</i>	Jul 2026 – Present
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- Lead the architecture and development of AI-powered products and intelligent automation solutions, connecting AI capabilities with real-world business processes.
- Architected and led the implementation of an AI-powered legal solution that reduced legal document production time by up to 50% through process automation and intelligent document workflows.
- Architected and led the development of an AI-powered virtual SDR for dental clinics, automating lead qualification, scheduling, and commercial follow-up while reducing response time and increasing conversion rates.
- Designed an event-driven legal application integrating RPA and automated research workflows to support legal and case-law discovery and automated document generation.
- Architected and implemented a serverless Legal RAG platform on AWS, using Amazon Bedrock, Python, AWS Lambda, Amazon S3, PostgreSQL and pgvector to ingest, chunk, embed and semantically retrieve content from legal books, generating context-grounded responses with document and page-level citations.

Compass.UOL	Remote <i>Senior Software Developer</i>	Sep 2024 – Jun 2026
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- Engineered enterprise digital products for clients including Vivo, Hospital Albert Einstein, and Poliedro, working across backend engineering, cloud-native architecture, AI-assisted development, frontend, and data technologies.
- Designed and evolved cloud-native solutions on AWS using serverless architectures and Infrastructure as Code with Terraform, contributing to scalable and maintainable production systems.
- Led engineering quality initiatives by establishing linting standards, automated testing practices, and Clean Code guidelines, reducing integration conflicts by 60%.
- Served as a technical reference through code reviews, mentoring, and engineering enablement, supporting the development of more than 75 software engineers.
- Contributed to architectural and technical decisions across distributed applications using Node.js/NestJS, React, SQL/NoSQL databases, and AWS services.

Btime	Remote <i>Senior Software Engineer</i>	Nov 2020 – Jul 2024
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- Engineered and evolved a SaaS platform focused on backend systems, distributed architectures, cloud technologies, and scalable software services.
- Contributed to microservices architectures that improved domain decoupling and enabled independent evolution of business capabilities.
- Designed and implemented distributed applications across multiple technology stacks, including Elixir, React, React Native, GraphQL, and SQL.
- Improved engineering reliability through code reviews, automated testing, continuous delivery, and API-based system integrations.

TOTVS	Cascavel - PR <i>Software Developer</i>	Mar 2019 – Nov 2020
- Developed and modernized an enterprise CRM platform serving large corporate customers, contributing to technology evolution and engineering process improvements. - Delivered full-stack solutions across backend and frontend layers using Java, React, React Native, and SQL within complex enterprise environments. - Contributed to the architectural evolution of legacy systems while maintaining operational continuity and supporting modernization initiatives.		

Self Employed	Cascavel - PR <i>Software Engineer</i>	Feb 2018 – Mar 2019
- Designed and delivered custom software solutions for clients across different industries, independently managing technical planning, implementation, and delivery. - Designed system integrations using REST APIs and cloud services, adapting architecture and technology choices to different business and technical requirements.		

Aprova	Cascavel - PR <i>Full-Stack Engineer</i>	Sep 2016 – Feb 2018
- Developed digital platforms for the public sector, contributing to technology transformation initiatives and business-critical systems. - Contributed to the migration from AngularJS to Angular 2 and developed cloud-based applications using Angular, Laravel, and AWS services.		

Selected Projects

Coingems — <i>Project lead, developer and architect</i>	2024
- Designed and built a news platform for cryptocurrency investors, available on Android and iOS, leading the technical direction and the communication between multidisciplinary teams. - Stack: React, Expo, Next.js, Firebase, AWS.	

Refresca Cuca — <i>Project lead, developer and architect</i>	2022
- Led the creation of a web application to streamline post-sales processes and boost sales for companies in the screen printing industry, working directly with stakeholders and leading a team of three. - Stack: React, Elixir, GraphQL, PostgreSQL, Heroku.	

Sonata — Schedule for Violinists — <i>Developer and architect</i>	2020
- Conceived and built from scratch, in partnership with a violin teacher, a mobile app formerly available on Google Play that helped violinists organize practice sessions and track technical progress. - Stack: Flutter, Spring Boot, Java.	

Mentoring & Speaking

- Mentor / Scrum Master, Compass.UOL Scholarship Program** (2025–2026) — supported 75+ software professionals through mentoring, code reviews, and technical guidance.
- Tech chapters, Compass.UOL** — internal series on Elixir (parts 1–2) and Event-Driven Architecture with AWS (parts 1–3), reaching 60+ employees.
- Speaker, IX SAET** (2025) — “Functional Programming with Elixir and the BEAM Concurrency Model”.
- Workshop instructor, X SAET** (2025) — “Distributed & Serverless Architecture on AWS”.
- Extension project, UTFPR** — Digital Document Signer, a digital document signing solution built in Java.

Education & Certifications

Executive MBA in Leadership and Strategic Negotiation <i>Descomplica Faculdade Digital</i>	Toledo, PR Nov 2026
Federal University of Technology of Paraná (UTFPR) <i>Technologist Degree, Internet Systems</i>	Toledo, PR Completed – 2026
Descomplica Faculdade Digital <i>BSc, Computer Engineering</i>	Toledo, PR 2026
AWS Certified Developer – Associate (DVA-C02) <i>Credly Badge</i>	Amazon Web Services (AWS) 2025
Senai PR <i>Technical Course, Computer Networks</i>	Cascavel, PR 2015

Languages

Portuguese: Native — English: B2