

Renan Sued

Senior AI Engineer | Solution Architect

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SUMMARY

Solution Architect and Software AI-Systems Engineer at Lumis (12/2021 – present), previously Software Development Engineer at Lumis (01/2017 – 12/2021). Led 5 engineering teams delivering enterprise platforms for 93.4M+ six-month active users, and architected scalable APIs, event-driven services and Digital Experience Platforms processing millions of daily transactions — including solutions for critical banking and insurance clients. Builds and operates production AI systems: autonomous developer agents across the SDLC, AI agents with prompt-injection protection, an AI assistant built on vector databases and embeddings, and an autonomous content agent with human-in-the-loop review. Hands-on with AI/LLM systems since 2020, working with Claude, OpenAI, Gemini and DeepSeek models. Established DevSecOps and LLMops practices and mentors engineers and architects.

TECHNICAL SKILLS

- **AI / LLM:** Agentic AI, AI Agents, Generative AI, LLM Applications, Agent Orchestration, MCP, RAG, Vector Databases, pgvector, Pinecone, Chroma, Vertex AI Vector Search, Embeddings, Chunking, LangChain, LLMops, Prompt Engineering, AI Guardrails, Prompt Injection Protection, Agentic Loop, Human-in-the-Loop
- **LLM Providers:** Claude, OpenAI, Gemini, DeepSeek
- **AI Dev Tools:** Claude Code, Cursor, OpenCode, Antigravity
- **Languages:** Java, JavaScript, TypeScript, Python, Go, Kotlin, SQL, PHP
- **Backend & Platforms:** REST APIs, Node.js, Lumis XP, LumisPortal, MVC
- **Frontend & Mobile:** React, Redux, Next.js, Vue.js, Angular, jQuery, XSL, React Native, Expo, Flutter, Android
- **Architecture:** Microservices, Distributed Systems, Event-driven Architecture, Cloud-Native Architecture, Digital Experience Platforms (DXP), High Availability
- **Cloud:** AWS, AWS CloudFormation, Lambda, Serverless, Azure, Vercel, Cloudflare, Supabase, Firebase
- **Maps:** Google Maps, OpenStreetMap
- **Data & Messaging:** Kafka, Elasticsearch, NoSQL, MySQL
- **DevOps & Infrastructure:** Kubernetes, Docker, Terraform, Infrastructure as Code, CI/CD, GitLab CI, Jenkins, Git, SonarQube, DevSecOps
- **Observability:** OpenTelemetry, Prometheus, Grafana, Datadog, PostHog
- **Testing:** Playwright, Cypress, Jest, Unit Testing, A/B Testing, Multivariate Testing

EXPERIENCE

Solution Architect | Software AI-Systems Engineer — Lumis

Rio de Janeiro, Brazil · 12/2021 – Present

- Led 5 high-performing engineering teams (about 4 people each) delivering enterprise platforms for 93.4M+ six-month active users, driving efficiency and productivity through AI-first automation — adopting Java, AWS, Cloud-Native Architecture, Generative AI, Agentic AI, Agent Orchestration, MCP, Cursor and Claude Code — while mentoring engineers and architects.
- Architected scalable APIs, event-driven services and multiple Digital Experience Platforms (DXP), from design to deployment, processing millions of daily transactions with high availability, performance and security.
- Technically led engineering teams and architected solutions for critical banking and insurance clients, ensuring security, compliance and high availability for regulated financial workloads.
- Designed autonomous developer agents that automate the team's SDLC end-to-end, from task pickup through implementation and testing to staging/homologation handoff, removing manual steps and accelerating releases.
- Built and operate production AI agents automating process analysis and solutioning, with agent training and prompt-injection protection (LLM guardrails, input/output validation).

- Led a project for a multinational law firm: migrated a WordPress platform to Java/Lumis XP at scale, implementing vector databases, embeddings and chunking to power a production AI assistant for client-facing use cases.
- Delivered an autonomous content agent (search, generate, analyze, publish) that registers content on emerging platforms with confidence scoring and human-in-the-loop review.
- Established DevSecOps and LLMOps practices — CI/CD, Infrastructure as Code, Docker, SonarQube, OpenTelemetry — removing manual steps across the release pipeline and modernizing DevOps infrastructure with least-privilege access policies.
- Chapter Leader, introducing knowledge and technology to the team to ensure productivity and automation.

Software Development Engineer — Lumis

Rio de Janeiro, Brazil · 01/2017 – 12/2021

- Technical Leader for Brazil's largest shopping mall group web platform, building corporate applications on content experimentation platforms with Java, React JS, VueJS, AWS and SQL.
- Used Python and Kafka for event queuing and file processing on the shopping mall platform, with guaranteed execution and no duplicate processing.
- Technical leader for DevOps modernization (Git, Jenkins, Docker, SonarQube) and event-driven architecture, automating and optimizing A/B, Auto-Targeting and Multivariate Testing for core marketing experiments.
- Full-stack development across Java, JavaScript, Node, React, Redux, Lumis XP, jQuery and XSL.

Software Engineer — Sued Team

RJ, Brazil · 06/2015 – 12/2016

- Founded and led engineering for enterprise fintech applications, building end-to-end products with Java, Android, MVC, MySQL, Node and React.
- Managed 4 projects spanning military, pet-tech and political research domains.

Software Engineer Mobile — Fluxo Consultoria UFRJ

RJ, Brazil · 01/2015 – 12/2016

- Built mobile apps for military fitness assessment (FAB — Firebase, Android, JWT, OAuth2, complex custom cryptography) and automated medicine recognition from prescriptions via OCR (Tesseract OCR).

Software Engineer Fullstack — Sued Team

RJ, Brazil · 06/2014 – 12/2016

- Built mobile and web apps for students and teachers (MySQL, PHP, GCM, Android, VPS Linux); clients were two federal public education institutions.

PROJECTS

BikerWay — personal project (Android beta)

07/2026 – Present · Platform for motorcyclists: native app (Android beta, iOS later), web app and admin panel ·

bikerway.com.br

- Founder and lead engineer, with a small team: live convoy map with background location, recommended routes and trusted places, events, motorcycle clubs with rankings, and a fuel, expense and maintenance dashboard.
- AI data pipelines in production: LLM discovery enriched with Google Places/Routes and OpenStreetMap, schema-validated output, confidence scoring from evidence, and a single ingestion layer with human approval before paid runs.
- Development supported by a team of 14 Claude Code agents with a consensus protocol and human-only risk gates.
- Stack: TypeScript, Supabase (PostgreSQL, row-level security, Realtime, Edge Functions), Expo / React Native, React, Next.js, Vercel, PostHog.

EDUCATION

Bachelor of Engineering — PUC-Rio

RJ, Brazil · Concluded 12/2024

Control and Automation Engineering, Additional Domain in Software Engineering. Thesis: *GADEMO Web — A Computational Approach for Simulation and Evolutionary Optimization in Genetic Algorithms* (foundations of Machine Learning).

Technical Diploma in Control, Robots and Automation — CEFET/RJ

RJ, Brazil · 01/2013 – 12/2016

High School Diploma — Colégio Pedro II

RJ, Brazil · 01/2013 – 12/2016

Highly selective federal public high school, ranked among the top high schools in Brazil. Technology Student Leader: led end-to-end development of custom content management systems and educational applications; architected and deployed an instant notification system and central news database for the student body.

CERTIFICATIONS

- Google Generative AI Leader — Google Cloud (09/2026)
- Claude Certified Architect — Anthropic (In Progress)
- Scrum Foundation Professional Certificate (SFPC) — CertiProf (02/2019)
- Introduction to Distributed Ledger Technology (DLT) (02/2014)

LANGUAGES

Portuguese (native) · English (B2) · Spanish (intermediate)

AWARDS

- 2nd place — PUC-Rio Sustainability & Energy Hackathon, RJ, Brazil (08/2018)
- Medal — Math & Algorithm Competition, Colégio Pedro II, RJ, Brazil (03/2014)

MENTORSHIP

- Programming Monitor for Data Structures & Algorithms (08/2014)
- Long-term volunteer mentor preparing students for technical high school admission (2012 – 2015)