Luis Machado Reis

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Professional Summary

Experienced Software Architect and Engineering Leader with over 20 years of hands-on experience designing, modernizing, and scaling high-performance, resilient systems. Proven track record in fintech, SaaS, and telecom, with deep expertise in cloud-native solutions (AWS, GCP), microservices, DevOps, and full-stack delivery. Skilled in leading global teams, implementing CI/CD pipelines, and aligning architecture with business impact. Passionate about leveraging AI tools and developing agent-based solutions to support engineering and architecture teams, significantly increasing productivity and accelerating delivery pace.

Core Competencies

- Software Architecture & Modernization
- Backend & Full-Stack Engineering (Java, Spring Boot, Python, .NET, React, Angular, Vue)
- Cloud Computing (AWS, GCP), Kubernetes, Docker
- CI/CD & DevOps (GitHub Actions, Jenkins, Bamboo, Terraform, Ansible)
- Frontend Development with React, Vue, Angular, TypeScript
- Microservices & Event-Driven Systems (RabbitMQ, Kafka)
- Scalable, Secure Systems Design (OAuth2, OpenID, JWT, PCI DSS)
- Technical Leadership & Team Mentorship
- Performance Optimization & Observability
- Agile Development, Remote Team Collaboration

Professional Experience

Sears Home Services – Senior Software Engineering Manager

Jul 2025 – now | Chicago, USA

Service Order Management – Software Architect
- Create, Update, Reschedule, Cancel, Lookup service orders
- Authorizer Service: Client ID and bearer token management
- Provide closer architecture support for Business/Product areas
- Provide closer support for SHI (Sears Holding India) Engineers

SHSAI – Software Engineering Manager
- AI innovation engine for Sears Home Services, focused on:
- Agent Development & Orchestration
- Machine Learning & NLP Solutions
- AI-Powered Tooling for Technicians
- Conversational AI (Chat Assistants, Voice AI)
- Intelligent Routing & Scheduling

Trustly – Head of Software Architecture

Sep 2022 – Feb 2025 | Vitória, Brazil

- Led cloud-native architecture of real-time payment platform (Java, AWS, Spring Boot)
- Designed microservices, CI/CD (GitHub Actions, Bamboo), and automated infrastructure
- Achieved 99.99% uptime during high-traffic events like the Super Bowl
- Reduced transaction latency by 40% and improved overall reliability

Aurea Software – Product Chief Architect

Sep 2015 – Aug 2022 | Austin, TX (Remote)

- Modernized enterprise SaaS products including Lyris, Prysm, FogBugz, DevFactory
- Migrated systems to AWS, introduced Docker/ECS and infrastructure-as-code
- Led frontend modernization with React, TypeScript, and component architecture
- Delivered DevOps pipelines (Jenkins, GitHub Actions) and code quality automation

SingularIdeas – Senior Software Specialist

Apr 2005 – Sep 2022 | Uberlândia, Brazil

- Designed scalable SaaS applications using Java, React, and cloud services
- Built full-stack apps with responsive UIs in Angular, Vue, and React
- Developed backend APIs, CI/CD pipelines, and cloud-native automation

LigFlat Telecom – Founder & Software Architect

Aug 2013 – Dec 2019 | Uberlândia, Brazil

- Developed complete OSS/BSS platform, integrating VoIP, billing, and CRM
- Architected systems using Java, MySQL, and telecom protocols (SMPP, SIP)
- Automated network provisioning with Ansible and deployed via Bamboo

Algar Telecom – QA Engineering Manager

Jul 2008 – Dec 2012 | Uberlândia, Brazil

- Managed software quality, QA processes, and platform optimization
- Delivered stable portals and ecommerce platforms with .NET and Oracle

Education

Bachelor of Computer Science
Universidade da Região da Campanha (1997–2000)

Certifications

- **SCEA – Sun Certified Enterprise Architect**
- **SCJP 6 – Sun Certified Java Programmer**
- **EF SET C2 Proficient – English Certification**
- **IBM AIX Administrator / User**
- **Conectiva Linux Administrator I & II**

Languages

- Portuguese: Native

- English: Fluent (C2 – Proficient)

Projects & Portfolio

- **Real-Time Flight Tracker**
  Java, Python, TypeScript, React, Kafka
  Scalable architecture to process and visualize live flight events in real-time.

- **Flight Tracker App**
  React, TypeScript
  Interactive frontend interface for flight event visualization.

- **Heimdall Realm**
  TypeScript, Express, Serverless, JWT
  Secure access control service built on a serverless stack with JWT authentication.

- **Blueprint Prompts MCP Server**
  TypeScript, Node.js, Claude API, Cursor Integration
  Blueprint-based prompt management server to support AI workflows using Claude and Cursor.

- **Homelabs**
  Vagrant, Kubernetes, Terraform, Grafana, Loki, Promtail, Cloudflare Tunnel
  Infrastructure project to explore how to use a homelab in-house, exposing services using Cloudflare Tunnel.

- **Pudim Score Calculator** | Live Demo
  React, TypeScript, Node.js, shadcn/ui
  A personal, lightweight (and good-humored) Next.js project that demonstrates how to build a service consuming the GitHub API, ranking developers with dessert-themed titles—just for fun! The live demo is always running in my homelab (yes, that's alive).

Tools & Technologies

Languages & Frameworks: Java, Spring Boot, .NET, Python, JavaScript, TypeScript, React, Vue, Angular
Cloud & DevOps: AWS, GCP, Kubernetes, Docker, Terraform, Ansible, Jenkins, Bamboo, GitHub Actions
Architecture: Microservices, Modular Monolith, Serverless, Event-Driven
Databases: PostgreSQL, MySQL, SQL Server, Oracle
Messaging & Integration: Kafka, RabbitMQ, ActiveMQ, SQS
Security: OAuth2, OpenID, JWT, PCI DSS
Monitoring: Prometheus, Grafana, AWS CloudWatch