Thallis Andre Faria Moreira

Senior Software Engineer | Tech Lead | Backend (Node.js, AWS, AI/RAG)

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SUMMARY

Senior Software Engineer and Tech Lead with **8+ years** of career progression, from development intern to Tech Lead, building backend microservices and cloud-native systems in Node.js/TypeScript on AWS across the fintech, legal tech, and edtech sectors. Architected a Generative AI/RAG platform that cut legal document research **from hours to minutes** across more than **10K processed documents**, and built a multi-tenant SSO identity layer serving **5K+ users across 5+ products**, while also cutting monthly AWS spend by **~25%**. Previously modernized corporate credit systems supporting a **multibillion-BRL credit portfolio** at Itaú Unibanco, Latin America's largest bank. Promoted to Tech Lead and currently leads **6+ engineers**; holds **3 AWS certifications**.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Frameworks and Libraries: Node.js, NestJS, Next.js, React, Angular

AI and Data Engineering: RAG Pipelines, LLMs, Embeddings, Vector Search (PGVector), Semantic Search, OCR, Document Processing

Architecture and Patterns: Microservices, Event-Driven Architecture, Domain-Driven Design, Hexagonal Architecture, Serverless, REST API Design (OpenAPI), High Availability

Cloud and DevOps: AWS (ECS, EKS, Fargate, Lambda, S3, API Gateway), Kubernetes, Docker, Terraform, CI/CD (GitHub Actions, GitLab CI, Jenkins)

Databases and Observability: PostgreSQL, MongoDB, Redis, MySQL, Datadog, Prometheus, Grafana

Testing and Quality: TDD, BDD, SOLID, SonarQube, Code Review

PROFESSIONAL EXPERIENCE

New Rizon

Remote, Brazil

Senior Software Engineer, promoted to Tech Lead *May 2023 – Present*

Brazilian B2B software company (~60 employees) with products in legal tech, edtech, and Business Intelligence.

- Promoted to Tech Lead in **~12 months**; leads **6+ engineers** across **5+ products**, standardizing architectural patterns, translating ambiguous business requirements into actionable technical roadmaps, and unblocking delivery through solution reviews and technical prioritization.
- Architected and leads a Generative AI/RAG platform for the legal sector, enabling natural-language search and answers over **thousands of complex documents** using LLMs, embeddings, vector search, and retrieval pipelines, cutting document research time **from hours to minutes**.
- Architected a multi-tenant identity microservice (auth/SSO) serving **5K+ users across 5+ applications**, establishing the company's centralized authentication standard and eliminating fragmented auth implementations.
- Leads the evolution of a file management and processing microservice that performs large-scale extraction, OCR, indexing, vectorization, and semantic search over **10K+ files** (PDFs, scanned documents, images, spreadsheets), the data foundation behind the company's RAG and semantic search products.
- Designed the ms-dashboards microservice from scratch using Node.js, clean architecture, and modular REST APIs, targeting scalability for **5,000+ concurrent users**.
- Reduced monthly AWS spend by **~25%** by right-sizing ECS/Fargate services, adopting Fargate Spot for asynchronous document processing, tuning Lambda memory allocation, and automating S3 lifecycle policies, while preserving high availability.

NTT Data, assigned to Itaú Unibanco

Remote, Brazil

Senior Software Engineer *Jun 2021 – May 2023*

Global IT consultancy; embedded at client Itaú Unibanco, Latin America's largest bank.

- Migrated critical capabilities of strategic corporate credit products (revolving credit and working capital lines) from legacy monolithic systems to microservices using Java, Spring Boot, Angular, and AWS, supporting a **multibillion-BRL credit portfolio** and **tens of thousands of corporate clients**.

- Cut deployment lead time **from hours to minutes** by implementing CI/CD pipelines with GitHub Actions, automating build, test, and deployment of containerized applications on AWS and improving the squad's delivery predictability.
- Raised the team's technical quality bar through API contract definition, code reviews, architecture discussions, automated testing, SOLID principles, and integration standardization.

Decisão Sistemas

Goiânia, Brazil

Junior Software Developer *Nov 2019 – Jun 2021*

Financial management software for Brazilian microcredit institutions (Empresas Simples de Crédito).

- Developed payment modules, external API integrations, and web interfaces in Angular/Node.js for a microcredit platform, streamlining the full transaction lifecycle of credit operations and hardening critical components with TDD.

ELO Empresa Júnior

Goiânia, Brazil

Software Development Trainee *Nov 2018 – Dec 2019*

Student-run junior software consultancy at the Federal University of Goiás.

- Delivered web and e-commerce applications for real clients using React.js, React Native, and REST APIs, and led internal Docker and React training sessions for **10+ members**, standardizing the team's engineering practices.

EDUCATION

Postgraduate Degree in Software Architecture *Oct 2025*

FIAP (Faculdade de Informática e Administração Paulista)

Specialization in distributed systems design, microservices, scalability patterns, and enterprise architecture, applied directly to Tech Lead responsibilities in high-throughput backend environments.

Bachelor's Degree in Computer Engineering *Dec 2024*

Federal University of Goiás (UFG)

Full engineering curriculum with a strong foundation in algorithms, data structures, operating systems, computer networks, and software engineering principles.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate | AWS Certified Developer – Associate | AWS Certified Cloud Practitioner

LANGUAGES

English (Advanced) • Portuguese (Native)