Gian Michel Nunes Fernandes

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Leadership Activities

Patos de Minas's City Hall — Minas Gerais, Brazil

Software Engineer — *Jul 2025 - Dec 2025*

- Led technical development of a complete system modernization from Laravel 7 to Next.js and Java Spring Boot architecture, guiding a team of 5 engineers through an 6-month migration serving 150+ nonprofit organizations across health, education, and environmental sectors.
- Architected phased migration strategy with zero downtime, delegating front-end and back-end responsibilities while ensuring seamless integration between Next.js and Spring Boot components to maintain continuous service for third sector managers.
- Delivered measurable impact: reduced page load times by 68% (from 4.2s to 1.3s), decreased server costs by 42%, ultimately enabling government-supported organizations to serve over 50,000 beneficiaries more efficiently.

Experience

Patos de Minas's City Hall — Minas Gerais, Brazil

Software Engineer — *Dec 2023 - Dec 2025*

- Led full-stack development across 5 government digital transformation projects serving municipal museums, public schools, and agricultural supply chains, consistently delivering 40-60% improvements in operational efficiency and user task completion times.
- Engineered public school enrollment system using React.js and Java Spring Boot that streamlined registration workflows for thousands of families, reducing enrollment completion time by 55% and administrative processing time by 40% while maintaining 95% user satisfaction.
- Built scalable back-end architectures with Java Spring Boot across multiple high-traffic applications, improving system response times by 40% under concurrent loads and managing over 10,000 digital assets for municipal cultural preservation.

Rastreagro/Teigro — Remote, Brazil

Software Engineer — *Mar 2021 - Sep 2023*

- Architected complete back-end infrastructure for greenfield agricultural traceability platform (Teigro) using Nest.js, designing RESTful APIs with optimized payload structures that reduced average response times by 45% and maintained 99.8% system uptime in production environments serving real-time cold chain monitoring.
- Engineered hybrid database architecture leveraging AWS DynamoDB and PostgreSQL, reducing sensor data query latency by 70% through strategic NoSQL implementation for real-time IoT data while optimizing relational schemas for transactional operations, improving overall data retrieval efficiency by 40%.
- Collaborated with front-end development team to streamline API integration and state management patterns, implementing authentication layers and rate limiting that prevented system abuse while reducing integration bugs by 60%, enabling iterative feature delivery in agile sprint cycles.

Skills

- **Technical:** Java, JavaScript, SQL | Spring Boot, Nest.js, Next.js, React.js, Redux, Prime React, Tailwind CSS | PostgreSQL, MySQL, MongoDB, AWS DynamoDB | Git, GitHub, GitLab, GitHub Actions, Docker, Jira | Agile/Scrum, CI/CD
- **Language:** Portuguese (Native), English (B2), Spanish (A2)

Education

UNIPAM — Minas Gerais, Brazil

B.Sc. Information Systems — *Feb 2017 - Dec 2020*