

ALLAN BEZERRA

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Brazil

Software Engineer · Tech Lead · Software Architect · Tech Lead at Luby

SUMMARY

Software engineer and tech lead building critical software since 2013 across energy, live broadcast, payments, SaaS and AI. I design scalable, secure systems (cloud migrations, microservices, event-driven platforms serving millions of users) and lead the teams that run them. Today I am a tech lead at Luby, leading client teams, owning architecture and shipping AI features to production. Previously senior software architect at Poli Digital, technical lead at Globo and technical lead of a 9-engineer team at Neoenergia. Postgraduate specializations in software architecture, applied AI engineering and cybersecurity.

KEY ACHIEVEMENTS

- **-65% Company-wide overtime:** Delivered a solution that cut global overtime by 65% by 2018 and lowered OPEX. It earned the Meritocracy Award. (Neoenergia · 2016–2018)
- **+30% Operational efficiency:** Large-scale energy management system delivered for one of Brazil's largest utilities. (Neoenergia · 2018–2020)
- **-30% Incident rate:** High-availability architecture and technology choices for Globo's critical systems. (Globo · 2021)
- **-30% Payment errors:** Go and Node.js payment services built with transaction integrity first. (Pag.aí · 2020–2022)
- **AI LLM features in production:** Leading client teams that take AI features from prototype to real product workflows. (Luby · 2025–)
- **-40% System failures:** Architecture aligned with industry best practices, set as tech lead of a 9-engineer team. (Neoenergia · 2018–2020)
- **10⁶+ Users during live events:** Scaled critical systems for millions of users during live broadcasts of major global events. (Globo · 2020–2021)
- **-20% Time-to-market:** Streamlined CI/CD pipelines across Globo's digital platforms. (Globo · 2021)
- **1,350+ Users on one architecture:** Scalable architecture for mission-critical systems, owned as senior software architect. (Poli Digital · 2023–2025)

EXPERIENCE

Luby luby.com.br 2025 – Present
Software engineering company that builds and runs digital products for clients.

Tech Lead 2025 – Present

Technical lead for client engagements. I own the architecture, set the engineering bar across teams and take AI features from prototype to production.

- Shipped **AI features to production**, integrating LLMs into real product workflows rather than demos.
- Raised the code-quality baseline across client teams with consistent reviews and shared architecture guidelines.
- Lead engineering squads allocated to client products, from discovery and estimates to production releases.
- Own architecture decisions and keep them documented, reviewed and consistent across repositories.
- Review code across several teams, setting the standard for quality, security and maintainability.

Stack: LLMs, AI integration, Software architecture, Code review, Technical roadmaps

Poli Digital poli.digital 2023 – 2025
SaaS company running mission-critical systems used by thousands of people.

Senior Software Architect (promoted)

Promoted from squad leader to own the architecture of the platform behind the company's mission-critical systems.

- Delivered a scalable architecture serving **1,350+ users** across mission-critical systems.
- Raised reliability through penetration testing, systematic code review and database tuning.
- Owned the platform architecture and its evolution across squads.
- Set the technical direction, architecture standards and review practices shared by the teams.
- Led security work on critical flows: penetration tests, code reviews and hardening.

Stack: Software architecture, Penetration testing, Database optimization, Code review

Squad Leader

Led a cross-functional squad that maintained and evolved critical systems, with a focus on security, reliability and collaboration.

- **Significantly reduced production incidents** with proactive risk-mitigation strategies.
- Cut operational costs while speeding up resolution with the new support process.
- Led a cross-functional squad covering development, support and operation of critical systems.
- Designed the squad's agile support process, from intake and triage to resolution.
- Introduced proactive risk mitigation: monitoring, root-cause analysis and preventive fixes.

Stack: Agile, Incident management, Risk mitigation, Team leadership

Órigo Energia origoenergia.com.br
Energy company serving large clients.

Jan 2022 – Jan 2023

Senior Software Engineer

Jan 2022 – Jan 2023

Led the software team on high-complexity projects through the whole life cycle, from planning to launch and post-release maintenance.

- Delivered **three critical features in six months**, improving platform scalability and user satisfaction.
- Led several large-scale projects for major clients, recognized for performance and technical expertise.
- **Increased team efficiency** with shared best practices and streamlined workflows.
- Led the development team across planning, build, launch and post-implementation maintenance.
- Worked with project management to keep scope, deadlines and goals aligned.
- Designed scalable solutions tailored to each client's needs.

Stack: Full SDLC, Solution design, Mentoring, Process improvement

Globo globo.com
Brazil's largest media group. Digital platforms for web, mobile and smart TV, with traffic peaks during live broadcasts.

Nov 2020 – Dec 2021

Technical Lead

Apr 2021 – Dec 2021

Technical leadership for innovation-focused projects, delivering robust and scalable solutions for millions of users.

- **Cut incident rates by 30%** with architecture and technology choices for high availability.
- **Cut time-to-market by 20%** by streamlining CI/CD pipelines.
- Led the adoption of microservices and event-driven architecture, modernizing Globo's digital platforms.
- Defined architectures and selected technologies for high availability and resilience on critical systems.
- Drove modernization with microservices, event-driven architecture and new architectural patterns.
- Optimized development processes and introduced Agile practices to raise productivity.

Stack: Microservices, Event-driven architecture, CI/CD, AWS, GCP, Agile

Senior Software Engineer

Nov 2020 – Apr 2021

Development and maintenance of mission-critical systems across web, mobile and smart TV, as the team's technical reference.

- Scaled critical systems to **millions of users** during live broadcasts of major global events.
- Delivered **cloud migrations to AWS and GCP** as part of Globo's digital transformation.
- Reduced platform downtime with performance optimization and stronger monitoring.
- Raised engineering quality by driving Clean Code, automated testing and thorough code review.
- Built and maintained mission-critical systems for web, mobile and smart TV.
- Analyzed performance and scalability ahead of peak-traffic events.
- Ran Scrum and Kanban with cross-functional teams for faster cycles.

Stack: AWS, GCP, Cloud migration, Monitoring, Automated testing, Scrum, Kanban

Pag.aí pag.ai

Sep 2020 – Jul 2022

Fintech payments platform.

Back End Developer

Sep 2020 – Jul 2022

Backend systems in Go and Node.js for payments, with data flow and transaction integrity as the first requirement.

- **Cut payment transaction errors by 30%**, improving reliability.
- Delivered backend services that process hundreds of transactions a day efficiently.
- Optimized performance with cloud-native tooling and serverless architecture.
- Built backend services in Go and Node.js for payment processing.
- Designed APIs together with the frontend team to match user-interface needs.
- Monitored reliability and removed performance bottlenecks before they reached users.

Stack: Go, Node.js, Serverless, Cloud-native, REST APIs

Neoenergia neoenergia.com

Nov 2013 – Dec 2020

One of Brazil's largest electric utilities, part of the Iberdrola group. Grew from junior engineer to tech lead in seven years.

Technical Lead

Jun 2018 – Dec 2020

Led a team of 9 engineers building complex solutions for the energy sector, owning guidelines, architecture and tooling.

- Delivered a large-scale energy management system, **raising operational efficiency by 30%**.
- Established an architecture aligned with industry best practices, **cutting system failures by 40%**.
- Improved team performance with continuous feedback and shared best practices.
- Led and developed a team of 9 engineers.
- Defined technical guidelines, architecture and tools aligned with market standards.
- Aligned business requirements with technical deliverables together with stakeholders.

Stack: Team leadership, Software architecture, Energy management systems

Senior Software Engineer

Apr 2016 – Jul 2018

Scalable systems for growing user and data demand, including production deploys and support.

- Supported **40% user-base growth with zero service interruptions**.
- **Cut company-wide overtime by 65%** by 2018, reducing OPEX.
- Improved work-life balance and employee satisfaction through gamification.
- Received the **Meritocracy Award for Innovation and Recognition** for this work.
- Built scalable systems for growing user and data volumes.
- Managed deploys and supported production environments without service interruption.
- Contributed to the strategic planning of development projects.

Stack: Scalability, Production support, Gamification, Mentoring

Software Engineer

Jun 2014 – Apr 2016

Microservices in production and API integrations that automated critical business processes.

- **Cut system downtime by 25%** through proactive maintenance and refactoring.
- Automated business processes through API integrations, streamlining operations.
- Created and maintained microservices in production with Docker and Kubernetes.
- Integrated internal and external APIs to automate critical business processes.
- Led refactoring initiatives to improve code quality and maintainability.

Stack: Docker, Kubernetes, Microservices, API integration

Junior Software Engineer

Nov 2013 – Jun 2014

Web and mobile applications for the energy sector with Angular, Node.js and PostgreSQL.

- Improved response time and scalability with optimized algorithms and database queries.
- Launched new features in key applications, improving user experience and operational efficiency.
- Reduced latency and improved the overall stability of critical systems.
- Developed web and mobile applications with Angular, Node.js and PostgreSQL.
- Implemented features following Clean Code and design patterns.
- Helped optimize the performance of critical systems.

Stack: Angular, Node.js, PostgreSQL

SKILLS

Software architecture	Microservices, Modular monolith, Hexagonal / Ports & Adapters, Clean Architecture, DDD, Event-driven, BFF, Micro-frontends, Design Patterns, API gateway (KrakenD), REST / OpenAPI, GraphQL, WebSockets, RabbitMQ, Kafka, AWS SQS / SNS, EventBridge, MQTT, ADRs, Spec-driven development, Architecture tests, Monorepos (Turborepo, pnpm), Feature flags, Code review standards, High availability, Autoscaling, Canary releases, Resilience & retries, Health checks, Performance tuning
Applied AI	OpenAI, Anthropic Claude, Google Gemini, Groq, Cohere, DeepSeek, Azure OpenAI, Embeddings, Reranking, Classifiers, Prompt guard, Content safety, Speech-to-text, Model fallback & tiers, MCP servers, AI agents, LLM code review, AI-generated MR descriptions, Claude Code, Codex, Model Context Protocol SDK, Laravel AI, Laravel MCP
Security	Keycloak, AWS Cognito, WorkOS SSO, SAML, OAuth 2.0 / OIDC, JWT / JWKS, RBAC, SonarQube, Semgrep, Trivy, Gitleaks, detect-secrets, OWASP Dependency-Check, SAST, Rate limiting, Helmet, Input sanitization, WAF, HashiCorp Vault, AWS Secrets Manager, Penetration testing, Audit trails, Access approval workflows, LGPD data protection, Supply-chain protection
Cloud & DevOps	ECS, EKS, Lambda, S3, SQS / SNS, RDS / Aurora, ElastiCache, CloudFront, DynamoDB, API Gateway, Kinesis, GCP, Azure (AKS), Oracle Cloud (OKE), Cloudflare Workers, Vercel, Docker, Kubernetes, Helm, ArgoCD (GitOps), Crossplane, Ansible, Serverless, GitHub Actions, GitLab CI, Jenkins, AWS CodeDeploy, Expo EAS
Backend	TypeScript, Node.js, Go, PHP, Python, C# / .NET, Java, NestJS, Express, Fastify, Hono, Bun / Elysia, Laravel, Lumen, Gin, Echo, FastAPI, ASP.NET Core, AdonisJS
Web & mobile	React, Next.js, Vue 3, Angular, TanStack, Tailwind CSS, shadcn/ui, Redux, Zustand, Storybook, React Native, Expo, Kotlin (Android), Swift (iOS), watchOS
Data	PostgreSQL, MySQL, MongoDB, SQL Server, DynamoDB, Redis, Elasticsearch, OpenSearch, Typesense, Prisma, TypeORM, GORM, Eloquent, EF Core, SQLAlchemy, Drizzle, Apache Airflow, Power BI
Quality & observability	Jest, Vitest, Playwright, Cypress, Testcontainers, Stryker (mutation), xUnit, Pest, pytest, Datadog, Sentry, OpenTelemetry, Prometheus, Grafana Loki, Elastic APM, Kibana
Leadership	Tech leadership, Mentoring, Continuous feedback, Individual growth tracking, Scrum, Kanban, Technical roadmaps, Release management, Engineering metrics, Jira automation

EDUCATION

Software Architecture · Postgraduate specialization

Applied AI Engineering · Postgraduate specialization

Cybersecurity · Postgraduate specialization

Estácio · Bachelor of Engineering (BE), Computer Software Engineering	2017 – 2021
UNIASSELVI · Associate's degree, Computer Science	2016 – 2018
Universidade Salvador · Bachelor of Engineering (BE), Electrical and Electronics Engineering	2011 – 2016