Lucas Arch

Senior Node Backend Developer

⊙ Salvador, Bahia

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⊕ https://lucasarch.com

Profiles

- ⌨ Github
- ⊡ LinkedIn
- ⊙ Instagram

Education

Catholic University of Salvador
Bachelor's
Analysis and Systems Development
Salvador, Bahia • December 2028

Languages

English
Intermediate (technical reading and written communication)

Skills

Backend
Node.js (JavaScript & TypeScript), Golang, Rust (personal projects)

Architecture
Microservices, SOA, REST APIs, Distributed Systems, DDD, Clean Architecture

CI/CD
GitLab CI, Github Actions, Bitbucket Pipelines

Messaging
RabbitMQ, Kafka, Redis Pub/Sub

Cloud & Infrastructure
Kubernetes, Docker, ArgoCD, Istio, Helm, AWS, DigitalOcean, Terraform, N8N, DevOps

Security
HashiCorp Vault, AWS SecretManager

Data
SQL, Prisma, Drizzle, TypeORM, Diesel, GORM, Postgres, MongoDB, Redis, MySQL

Summary

Senior Backend Developer with strong experience in distributed systems, cloud-native architectures, and performance optimization. Solid expertise with Node.js and Golang in high-scale environments, using Kubernetes, CI/CD, and infrastructure as code. Proven track record of drastic reductions in latency, costs, and processing time in critical systems. Hands-on approach with pragmatic architectural vision and focus on reliability, observability, and efficiency.

Experience

VX Case — Salvador, BA
Senior Node Backend Developer | Hands-on Tech Lead — May 2025 - Present

- Led architectural decisions and quality standards for a team of 20 developers, solving 20+ complex problems per sprint, while staying hands-on with the code and increasing productivity by 15%.
- Rewrote a file processing microservice from Node.js to Golang, reducing total processing time from ~59 minutes to ~3 minutes through parallelism with goroutines.
- Optimized multi-branch inventory calculation service with Golang and SQL tuning (STRAIGHT JOIN), reducing latency from ~21s to ~0.2s.
- Implemented and maintained workloads in Kubernetes, ensuring high availability, scalability, and resource efficiency.
- Adopted GitOps with ArgoCD (App of Apps) and Helm to standardize and automate deployments.
- Standardized AWS infrastructure provisioning with Terraform integrated into CI/CD.
- Implemented HashiCorp Vault for secure secret management with automatic injection into pods.
- Technical mentoring, code reviews, and continuous support to team developers.
- Sprint management using Scrum via ClickUp.

VX Case — Salvador, BA
Mid-Level Node Backend Developer — May 2024 - May 2025

- Migration of legacy PHP monolith to service-oriented architecture using Node.js and NestJS.
- Architecture and deployment of production Kubernetes clusters on Amazon EKS.
- Implemented service mesh with Istio in Kubernetes clusters, improving traffic control and security, resulting in 30% less downtime and full observability with Prometheus/Grafana.
- Development of automated CI/CD pipelines via GitLab.
- Development of microservices for dynamic Excel document generation and client data management.
- Integration with external APIs (Plug Notas, OTOCRM) for billing and CRM automation.
- Optimization of resource allocation in Kubernetes, reducing infrastructure costs while maintaining SLA.

Projects

Lithia.js
2023 - Present
Next-Gen Node.js Framework & TypeScript First, focused on DX, with file-based routing inspired by Next.js.
https://lithiajs.com

Kastra Registry
2025 - Present
Private npm package registry, Open Source and Self-Hosted. With audit history, package access control with team division. Modern interface built in Next.js, and core server built in Rust, aimed at maximum performance and minimal computational consumption.

Octokube
2025 - Present
Kubernetes Cloud IDE, focused on virtual access control above RBAC, audit logging, and Kubernetes management without needing installed tools. Through Octokube it is possible to manage teams, clusters, and accesses directly via Web, without kubectl or other tools.

Experience

MeuVidraceiro
Mid-Level Full Stack Node Developer — Remote — August 2023 - May 2024

- Responsible for structural refactors and evolution of backend architecture, focusing on single-responsibility microservices.
- Implementation and maintenance of backend services in Node.js, with attention to performance, maintainability, and domain clarity.
- Active participation in architectural decisions and definition of team technical standards.
- Managed Kubernetes infrastructure on DigitalOcean for 10+ microservices, automating deployments with Bitbucket Pipelines and reducing resource costs by 25% through scalability optimization.
- Implementation of testing strategies (unit and E2E) with Jest and Cypress.
- Delivery of critical business modules, including financial control, subscription engine, and automated billing via PlugNotas API.

MeuVidraceiro
Junior Full Stack Node Developer — Remote — September 2022 - August 2023

- Development and maintenance of backend and frontend features under technical guidance.
- Implementation of REST APIs and internal integrations using Node.js.
- Development of web interfaces with Angular, following defined layouts and requirements.
- Bug fixing, production support, and participation in code reviews.
- Practical learning of versioning, automated testing, and engineering best practices.

SoftWillians IT Solutions
Junior Angular Frontend Developer — Remote — February 2022 - September 2022

- Development of the WatchTV streaming platform using Angular;
- Integration with payment and authentication APIs;
- Development of custom video player and live EPG;
- Adaptation of the web application for mobile (iOS/Android) via Capacitor.