

Vinícius Moraes Lopes

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Software Engineer

Versatile Software Architect and Engineer with a decade of expertise in backend development, real-time applications, and infrastructure scaling. Proficient in a diverse technology stack including Golang, Java, and TypeScript, with deep expertise in containerization (Docker/Kubernetes) and GitOps workflows. Experienced in migrating legacy monoliths to efficient service oriented architecture.

Skills:

Programming languages: C|Java|Kotlin|Flutter|Golang|JavaScript|TypeScript|SQL|HCL

Cloud and infrastructure: AWS|GCP|IaC|GitOps|Kubernetes

Skilled in microservices architecture design and deployment

Experienced in database systems like MySQL, PostgreSQL, DynamoDB and Redis

Experienced in containerization using Docker and infrastructure management using Terraform and Kops

Strong backend development skills in Golang, Java and Node.js.

Experience:

Matrices, San Francisco, California | Simulation Engineer | November/2025 - Present

- Developed environments to enable safe and fast training of LLM models
- Collaborated closely with the founding team to review and optimize the platform's overall architecture, resulting in enhanced scalability.

Idwall, São Paulo, São Paulo | Software Developer | October/2023 - November/2025

- Enabled improvements of the authentication and authorization ecosystem by migrating legacy systems
- Developed core part of an orchestration engine using open source specifications and open source technology.
- Worked on a team that architected and developed a set of backend services that allowed other teams in the organization to deliver more reliable, secure and uniform services with less effort and reducing the usual development time from 12 to 2 weeks.
- Worked closely with team members and cross-functional partners to improve overall software quality practices.

SASI, Manaus, Amazonas | Software Architect | November/2019 - September/2023

- Planned and managed cloud resources and services in two clouds and 11 accounts on our OU.
- Ensured organizational compliance with ISO-27001 and LGPD/GDPR standards.
- Established and led a top-performing team from the ground up, leveraging expertise in talent identification and hiring to support the product evolution and the company's objectives.
- Maintained and evolved the project to support the company's growth, enabling it to serve hundreds of thousands of users.
- Designed and implemented highly scalable services with Golang and Node.js that were able to handle millions of requests every day.
- Delivered a scheduling system integrated to the platform that handles more than 200,000 users every week.

Objeto Inc, Toronto, Canada | Full Stack Development Consultant (Remote) | March/2022 - February/2023

- Customized and optimized a scheduling system based on Cal.com, an Open Source project for scheduling written in TypeScript.
- Collaborated with a cross-functional team to troubleshoot and fix issues in the system.
- Contributed to developing and enhancing calendar integrations, and implemented various helper functions for availability management.

NuCash, Manaus, Amazonas | Mobile and Backend Developer | August/2017 - September/2019

- Integrated with financial services APIs to allow hundreds of instant transactions daily.
- Led the existent team into migrating the mobile application to native technology.
- Revamped the monolithic PHP API by migrating it to Node.js and Golang microservices, resulting in faster team collaboration and reduction of the delivery cycle from 3 weeks to 12 days.
- Optimized API response time in one of the search endpoints, reducing it from approximately 140 seconds to 210 milliseconds, by correctly indexing and caching queries.
- Maintained the Android Mobile Application with small bundle size (around 15mb) and optimal performance, all written in Kotlin.

ZenoSoft Software, Manaus, Amazonas | Mobile and Backend Developer| January/2016 - March/2018

- Developed the first android version of the City of Manaus bus route and schedule tracking app ("Cadê meu ônibus").
- Built APIs and integrations with Node.js and PHP for local fintech startups.
- Conducted the migrations of our clients from a PHP to Node.js API.

RNP Point of Presence in Amazonas (PoP-AM) | Intern | January/2015 - February/2016

- Created integrations and tools for report generation in Perl for extraction of reports from Redmine and Zabbix systems.
- Found and reported a vulnerability that allowed account impersonation by another student through headers manipulation at the college system.

Self Employed | Freelance Website Developer | July/2012- January/2014

- Built websites and integrations with PHP, MySQL and WordPress.

Education:

- Former student from Amazonas Federal University (Universidade Federal do Amazonas) - Computer Engineering
- Training in the Network and Systems Security course from National Education and Research Network (Rede Nacional de Ensino e Pesquisa - RNP-BR) - Superior Network School (Escola Superior de Redes) (SEG-2)
- 3D Gaming Artist Closed Class - Samsung Ocean
- Internship as Android Mobile Developer at OverCoffee Solutions on Cairo-Egypt

Languages:

English - Advanced

Portuguese - Native