Vinicius Cruz

Senior Fullstack Engineer & Tech Lead
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Professional Summary

Senior Fullstack Engineer and Tech Lead with 15+ years across Fintech, Edtech, and Healthtech. I lead technical direction end-to-end — architecture decisions, design reviews, quality standards, and mentoring — while shipping hands-on across the stack with **Node.js (TypeScript)**, **Python** and **Golang**, plus **React**, **Vue.js**, and **Angular** on the front end. I establish AI-assisted development practices — **Spec-Driven Development**, versioned specs, and context engineering — to keep teams fast and consistent. Proven impact under load: **83% infrastructure cost reduction (BRL $3,000 → BRL $500/month)** and **16x performance gains**. Upper-intermediate English (B2), comfortable leading technical meetings with clients and cross-functional teams.

Skills Summary

- **Backend**: Node.js (TypeScript), Python, Golang, C# (.NET), Java (Spring Boot), PHP8+ (Laravel)
- **Frontend**: React, Next.js, Vue.js, Angular, React Native
- **Cloud & Infrastructure**: AWS (Lambda, ECS, EKS, S3, RDS, DynamoDB, SQS/SNS, EventBridge), GCP, Terraform, Kubernetes, Docker
- **Architecture**: Microservices, RESTful APIs, Event-Driven, Clean Architecture, SOLID, DDD
- **Quality & CI/CD**: GitLab CI/CD, GitHub Actions, Bitbucket Pipelines, SonarQube, Jest, JMeter
- **Practices & AI**: Spec-Driven Development (SDD), context engineering, AI-assisted code review, agent skills, MCP, TDD
- **Observability**: Grafana, New Relic, Prometheus
- **Databases**: PostgreSQL, SQL Server, MySQL, MongoDB, Redis
- **Leadership**: Tech leadership, design reviews, mentoring, technical standards & documentation, client-facing technical communication

Experience

- **Pipwars** — Rio de Janeiro, BR
  Tech Lead — *Jul 2025 – May 2026*
  - **Technical Leadership & Product Rescue**: Took technical ownership of a starting fintech-eduational product, audited the inherited architecture, decided keep-vs-rebuild, and led a team of 3 (65% hands-on) across the Core API (**Java / Spring Boot**), Backoffice API (**Nest.js**), and **React Native** app — shipping it from local-only to live on Google Play and the App Store.
  - **AI-Assisted Development (Spec-Driven Development)**: Introduced SDD as the team's AI-assisted workflow: versioned specs (`requirements.md`, `design.md`, `tasks.md`) and task context in-repo, and built agent **skills** plus a **context-engineering** harness so AI output stayed consistent with the project's standards and conventions.
  - **AI-Augmented Delivery**: Integrated AI into pull-request reviews to enforce conventions and surface defects earlier, raising delivery consistency across the team.
  - **DevOps & Environments**: Designed CI/CD deploy pipelines and provisioned secure **staging** and **production** environments (GCP, **Terraform**, **Kubernetes**) for both the backend APIs and the React Native app; cut infrastructure cost **83% (BRL $3,000 → BRL $500/month)** through GCP optimization.
  - **Real-Time Architecture**: Built a real-time, low-latency financial price-streaming microservice in **Golang** (SSE) on GCP Cloud Run.
  - **Engineering Culture**: Mentored junior and mid-level developers and championed clean architecture through design and code reviews.
- **Oliveira Trust** — Rio de Janeiro, BR
  Senior Backend Engineer — *Mar 2025 – Jul 2025*
  - **Distributed Microservices**: Built and maintained high-concurrency microservices in **PHP 8+** on AWS (**Lambda, ECS, EKS, SQS, SNS, DynamoDB**) for resilient, mission-critical operations.
  - **Container Orchestration**: Operated containerized workloads with **Docker** and **Kubernetes** (Rancher), with delivery managed through Bitbucket pipelines.
  - **Observability & Performance**: Identified and resolved data-processing bottlenecks via metric collection in **Grafana** and load/stress testing with **JMeter**.
- **Afya** — São Paulo, BR
  Senior Software Engineer — *Feb 2023 – Jan 2025*
  - **Fullstack Delivery**: Led team deliveries for a nationwide medical ecosystem, building across **Node.js**, **React.js**, and **Next.js** while acting as facilitator for day-to-day problem solving.

- **Performance Optimization**: Achieved a **16x efficiency gain** in LMS data processing via **AWS Lambda** optimization, and **3x faster** report loading through a strategic **Next.js** migration with Recharts dashboards.
- **Automation**: Built multi-tenant physician satisfaction surveys over WhatsApp using **Python** background jobs via **Celery**.

- **Stone Age (acquired by TIVIT)** — Rio de Janeiro, BR
  Full Stack Developer — *Jan 2022 – Feb 2023*
  - **Anti-Fraud Platform**: Improved reliability and security of an anti-fraud and credit-analysis ecosystem using **C# (.NET)**, **Node.js**, **Angular**, and **PostgreSQL** on AWS, standardizing the codebase and hardening workflows.
  - **Efficiency & Cost**: Reduced service time for hundreds of thousands of customers and optimized RDS usage through data purging and relational indexing, driving operational cost savings.
  - **Client Engagement**: Ran weekly client meetings to capture needs and present development results.
- **+A Educação** — Rio Grande do Sul, BR
  Full-stack Developer — *Dec 2020 – Jan 2022*
  - **Platform Engineering**: Engineered a custom referral (Member-Get-Member) platform from scratch with **Laravel** and **Vue.js**, driving a **900% expansion** of the paid user base (300 → 3,000+ subscribers).
  - **Delivery Automation**: Implemented CI/CD with Bitbucket Pipelines and AWS, cutting deployment time by **50%**.
- **Jaleko** — Rio de Janeiro, BR
  Back End Developer — *Nov 2018 – Dec 2020*
  - **API Development**: Built and maintained APIs for education platforms with **Laravel**, **Node.js**, and **Vue.js** on AWS, improving response times by **20%** through endpoint optimization and query refactoring.
  - **Data Integration**: Implemented a webhook system for financial data and integrated databases with Power BI and Metabase; migrated legacy databases on **MySQL** with minimal downtime.
- **DETRO/RJ** — Rio de Janeiro, BR
  Back End Developer — *May 2016 – Oct 2018*
  - **Public-Scale Systems**: Migrated a legacy Access system to **Laravel** (PHP) and developed corporate web services and APIs in **PHP**, **Python**, and **Java** over **MySQL** and **Oracle**, reducing processing times by **25%**.
  - **Security & Compliance**: Implemented encrypted web services to provide data securely to the Civil Police, meeting stringent data-protection standards; applied Scrum and ACL-based access control.

Education

- **Pontifícia Universidade Católica do Paraná** — Brazil
  Postgraduate Degree in Software Architecture — *May 2021 – May 2022*
- **Universidade Veiga de Almeida** — Brazil
  BSc in Computer Science — *2014 – 2018*

Languages

- **Portuguese**: Native
- **English**: Upper-intermediate (B2)