

Haruan M. Justino

Lead Software Engineer | Software Architect | Python & Data Platforms

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SUMMARY

Lead Software Engineer and Architect with 16+ years of experience designing scalable platforms and leading cross-functional engineering teams at international technology companies. Core stack in Python and TypeScript — backend services, React frontends, and cloud-native data platforms (AWS, PySpark, Snowflake) handling billions of records. Known for rapidly turning new ideas into shipped products across changing stacks (Java, PHP, iOS): most recently a knowledge base API delivered in two weeks, powering an AI product launch that reached 145M monthly unique visitors, and an MCP integration built in days that enabled a strategic partnership with Anthropic.

EXPERIENCE

Lead Software Engineer

Finetune (A Prometric Company) — AP Classroom, College Board's platform for AP teachers and students | Remote
09/2025 – Present

- Redefined data scoring partitions, improving data retrieval speeds by 3x, and conducted cost-estimation POCs to guide the platform's infrastructure and performance trade-offs.
- Architected and led the merge of AP Classroom's two most heavily used teacher-facing pages, improving platform performance and simplifying teacher workflows.
- Lead engineering workflows across distributed teams, balancing feature delivery with technical sustainability while keeping the team unblocked and productive.

Lead Software Engineer

Wiley | Hybrid 10/2024 – 09/2025

- Delivered a medical knowledge base API in two weeks using Python and AWS Chalice, powering the debut of Wiley's Life Sciences AI Agent at an AWS event and generating 45 press articles with a combined reach of 145M monthly unique visitors.
- Architected a large-scale data platform using Java, Spring Boot, and Hexagonal Architecture, processing millions of scientific articles — extracting licensing metadata and computing content metrics — making content searchable and licensable to clients building LLM training datasets and RAG applications; its engineering standards were adopted across multiple teams.
- Developed a Model Context Protocol (MCP) integration on top of the medical knowledge base API in days, enabling and solidifying Wiley's strategic technology partnership with Anthropic.
- Led the engineering team to deliver the core data platform on schedule with the company's top performance metrics: fastest pull request turnaround, optimized testing durations, and highest code quality.
- Integrated AI-assisted development practices using Claude, MCP, Copilot, and Playwright, accelerating the development lifecycle and improving automated test reliability.
- Mentored engineers and collaborated with cross-functional teams, elevating engineering standards and software quality across the organization.

Senior Full Stack Engineer

Finetune — AP Classroom, College Board's platform for AP teachers and students | Remote 04/2022 – 09/2024

- Optimized critical Spark jobs, reducing execution times by nearly 50% and accelerating data availability and pipeline throughput.
- Contributed to the Architecture Council, defining the platform's long-term architectural vision and technology roadmap.
- Implemented a collaborative assessment-sharing feature, significantly reducing rework in assessment creation and improving user productivity.
- Integrated Mock-SQS into the local development environment, eliminating AWS infrastructure costs during development and streamlining testing.

Staff Full Stack Engineer

Administrative | Remote 02/2021 – 04/2022

- Rebuilt multiple legacy pages on a modern React and TypeScript architecture, improving performance, maintainability, and user experience.
- Implemented a comprehensive internationalization system for automated emails, enabling multi-language templates and expanding the platform's global reach.
- Consolidated multiple legacy Custom Fields implementations into a unified architecture, reducing technical debt and system complexity.
- Integrated robust debugging capabilities into the PHP and Python codebases, accelerating troubleshooting and the daily development lifecycle for the whole team.

Senior Full Stack Developer

CrossKnowledge (corporate learning platform) | On-Site 10/2018 – 02/2021

- Architected and led development of CK Connect, a five-service product built with Django, DRF, Vue.js, and Docker, resulting in a successful launch with positive industry reviews.
- Designed and executed the migration of big data event logs and analytics from MongoDB to Snowflake using Redis and S3, resolving major bottlenecks and enabling scalable analytics.
- Optimized the content suggestion system, reducing query response times from 30 seconds to 1.2 seconds.
- Rebuilt local development environments for 8 projects with Docker, cutting developer onboarding time from 2 days to 20 minutes.
- Established Python coding standards with automated enforcement, ensuring consistency across the entire engineering department.

Lead Software Engineer

Revenda Mais (SaaS platform for automotive dealerships) | On-Site 12/2016 – 09/2018

- Migrated hosting from a single-server setup to a distributed Nginx and Redis architecture, increasing SLA reliability for 600+ client websites.
- Resolved deep database bottlenecks, supporting 25% more clients on the same hardware, and modernized image-processing workflows, cutting AWS EC2 costs by 50%.
- Created a centralized log and monitoring system covering 20 third-party integrations, reducing new support tickets by 50%.
- Architected the platform's CRM module using PHP, Yii2, and SendGrid for scalable customer relationship management.

Earlier Career

- iOS Engineer, Bloglo (2015 – 2016): architected the Bloglo iPhone/iPad app, winner of the Apple App Store “Best New App 2016” award.
- iOS Consultant & Instructor, ENG DTP & Multimídia (2011 – 2015): trained corporate development teams at Correios, Banco do Brasil, and Prodam; published author (“Mac OS X Lion 10.7”); guided the team that delivered Brazil's official live election-count iOS app.

EDUCATION

Universidade Federal do Paraná (UFPR) | Curitiba, Brazil | Technologist in Systems Analysis and Development — 2021

LANGUAGES

English: Advanced (C1) | Spanish: Intermediate (B1) | Portuguese: Native

TECHNICAL SKILLS

Languages & Frameworks: Python (Django, Flask, FastAPI, AWS Chalice), Java (Spring Boot), TypeScript/JavaScript (React, Vue.js), PHP

Cloud & Data Engineering: AWS (EC2, S3, SQS, SNS, Glue, Redshift, CloudFront), PySpark, Snowflake, Docker, Nginx

Databases: PostgreSQL, MySQL, MongoDB, Redis

AI Engineering: Model Context Protocol (MCP), Claude, RAG, AI-assisted development (Copilot, Cursor)

Practices: Software Architecture, Distributed Systems, Microservices, Performance Optimization, Technical Leadership