

Henrique Rodrigues Silva

Senior Software Engineer

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PROFESSIONAL SUMMARY

Senior Software Engineer with **7+ years** of experience building software with TypeScript, Angular, React, Node.js, and AWS. Currently working with a US-based team on a behavioral healthcare EHR, including billing and insurance workflows. Previous experience includes delivering **40+ projects** and providing technical leadership for a group of **20+ developers**.

PROFESSIONAL EXPERIENCE

ICANotes

Senior Software Engineer | Remote

Sep 2023 - Present

Behavioral healthcare EHR for US clinicians and large practices, including users with **thousands of clinical notes**.

- Build Angular applications and Node.js/NestJS services for clinical workflows, billing, and insurance integrations.
- Developed **Electronic Remittance Advice (ERA)** processing for insurance payments and reconciliation workflows.
- Stepped in to lead the team while the technical lead was on leave.
- Monitor production logs in Kibana and investigate database latency, lock contention, and other performance issues.
- Work directly with US product and engineering teams on technical planning, architecture discussions, and code reviews.

Dev.Pro

Software Engineer

Mar 2023 - Sep 2023

- Developed Angular and Node.js applications for Xenial Data Management Cloud, part of Global Payments.
- Contributed to restaurant and retail systems used by brands including Taco Bell and Burger King.
- Wrote unit, integration, and end-to-end tests and worked with an international team using CI/CD pipelines.

PROFESSIONAL EXPERIENCE

Liga Facens

Full Stack Developer

Jul 2019 - Mar 2023

- Delivered **40+** web, mobile, and PWA projects for enterprise clients, government organizations, and educational institutions.
- Served as technical lead for a group of **20+ developers**, providing guidance across multiple projects.
- Led architecture decisions and code reviews, and mentored developers through onboarding and pair programming.
- Built REST APIs with NestJS and Node.js, backed by PostgreSQL, MySQL, and MongoDB.
- Designed and deployed AWS services using Lambda, API Gateway, S3, CloudFront, SNS, SQS, SES, and EventBridge.

SELECTED PROJECTS

ICANotes

Behavioral healthcare EHR | Billing performance and production reliability | [More info](#)

- Reduced p95 latency for the unbilled encounters worklist from **47s to 9s** in k6 load testing by simplifying insurance coverage queries.
- Traced production lock waits of up to **46.9s** to repeated charge cancellation requests. Blocked duplicate UI requests and prevented database writes for charges already marked as aborted.
- Built a **reusable AI skill** for Kibana log analysis and monitoring, turning findings into engineering tickets for performance improvements.

Bolão do UOL

World Cup prediction platform | 2022 | [More info](#)

- Built match predictions, private groups, rankings, and scoring history with Angular, NestJS, and PostgreSQL.
- Ran k6 load tests reaching about **418 requests/second**, with **99.73%** of checks passing.
- Used Azure Application Insights to assess service and database behavior under concurrent load.

Poliedro P+

Education platform | [More info](#)

- Developed backend services for an education platform serving **100,000+ users**.
- Built APIs and integrations with NestJS, PostgreSQL, and MongoDB.

SELECTED PROJECTS

ControleAki

Co-founder and Software Engineer | Launched Sep 2026 | controleaki.com.br

- Built and launched a restaurant SaaS for digital catalogs, table sessions, orders, and operational reporting.
- Implemented subscriptions and payment webhooks with Asaas, transactional email with Amazon SES, and AWS deployments backed by PostgreSQL.
- Implemented idempotent order creation and retry safeguards, with production monitoring through CloudWatch and Sentry.

Ecologicatech

Environmental management platform | [More info](#)

- Built a platform with carbon footprint calculations and tree planting compensation estimates.
- Integrated Google Maps APIs for distance and transportation calculations using Angular, NestJS, PostgreSQL, and AWS.

TECHNICAL SKILLS

Frontend	TypeScript, JavaScript, Angular, React, Ionic, HTML, CSS
Backend	TypeScript, Node.js, NestJS, Express, REST APIs
Cloud and DevOps	AWS Lambda, API Gateway, S3, CloudFront, RDS, SQS, SES, Docker, CI/CD
Databases	PostgreSQL, MySQL, MongoDB, SQLite
Testing	Jest, Jasmine, k6
Observability	Kibana, CloudWatch, Sentry, Azure Application Insights

EDUCATION

Bachelor of Computer Engineering

Facens - Faculdade de Engenharia de Sorocaba | 2018 - 2022

LANGUAGES AND ACTIVITIES

Portuguese: Native. English: Advanced (daily professional communication with US teams).

Senior Member, Lions Clubs International | 10+ years of volunteer service.