

Will Rosa

Senior Software Engineer

10+ years of experience building APIs for SaaS platforms with Rails (Ruby) and Laravel (PHP), managing spatial and time series data with PostgreSQL, and leading product engineering teams in startups and SMBs in Australia, Brazil, and the US. Proven track record of automating processes, modernizing legacy applications, and reducing cloud costs in industries like HRTech, PropTech, and environmental monitoring.

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EXPERIENCE

Senior Software Engineer at LeadSimple

US-based B2B SaaS PropTech startup automating processes and comms for property managers

Feb. 2024 - Jul. 2024

Full-time, remote, ~0.5 year

- Saved \$15,000 annually by removing database bloat and duplicate indexes in a **PostgreSQL** database.
- Improved emailing and texting capabilities in a **GraphQL API** built with **Rails** by integrating with Gmail, Outlook, Nylas, and Twilio.
- Solved incidents in a **Rails** application hosted on **Heroku** by partnering with other engineers and analyzing observability data in New Relic.

Senior Software Engineer at haistack.ai

US-based B2B SaaS HRTech startup finding legal talent for big law and boutique firms

Oct. 2022 - Feb. 2024

Full-time, remote, ~1.5 year

- Led a **5-person product engineering team** in **3 major projects**:
 - Evolved a **Rails** + React application by migrating the full-text search engine from Sphinx to **Elasticsearch**, refactoring Action View templates into **React** components, and upgrading the **Heroku** stack.
 - Evolved another **Rails** + React application by implementing authentication with **Auth0**, refactoring long running synchronous operations into background jobs in **Sidekiq**, and fixing slow queries in **PostgreSQL**.
 - Automated data integration processes by provisioning **Apache Airflow** environments hosted on Astronomer, setting up continuous integration with **GitHub Actions**, and setting up error tracking with **Rollbar**.
- Saved \$40,000 annually by rightsizing **EC2** instances, **RDS** instances, **S3** buckets, and other resources in production, staging, and development environments hosted on **AWS** and **Heroku**.

Software Developer at NetEngine

Australian-based software development company building mobile and web applications for SMB and startups

Nov. 2021 - Oct. 2022

Full-time, remote, ~1 year

- Built messaging, video calling, push notification, and user management capabilities in a **REST API** built with **Rails** by integrating with Firebase and Twilio.
- Automated data synchronization processes between Go1 Content Hub and Oracle Cloud HCM using **Rails**, **Redis**, and **Sidekiq**.
- Improved reporting, search, and third-party integration capabilities in a **Rails** + React application hosted on **AWS ECS** by using libraries like Paperclip, Thinking Sphinx, and httparty.

Software Developer at Agent Legend

US-based B2B SaaS PropTech startup automating comms for real estate professionals and mortgage agents

Dec. 2020 - Nov. 2021

Full-time, remote, ~1 year

- Improved reporting and third-party integration capabilities in a **Laravel** + **Vue** application hosted on a Forge-managed VPS by using libraries like League\Csv, Flysystem, and Guzzle.
- Refactored Blade templates into **Vue** components and unified operations into a **REST API** built with **Laravel** for consumption by web and mobile clients.
- Refactored emailing and texting capabilities in a **Laravel** + **Vue** application to comply with the CAN-SPAM Act and A2P 10DLC.

- Led up to **5-person product engineering teams** in **3 major projects**:
 - Monitored vegetation suppression activities around power transmission lines by automating data integration processes in a **Django** application.
 - Shared air quality data and public health indicators associated with wildfires by publishing dashboards in **Kibana** from data stored in **Elasticsearch**.
 - Evolved reporting capabilities of a **Node.js** application by integrating with web map services from NASA and building data visualization with **Chart.js**.
- Built three **Laravel + PostgreSQL** applications: one for monitoring fire suppression activities in protected areas, another for sharing burned area data, and another for publishing reports about active fire and fire risk.
- Managed spatial and time series data about active fire, burned area, and fire risk by administering **PostgreSQL** databases, automating backup routines and data integration processes, designing database schemas, and tuning database performance.
- Managed web hosting of applications built with **Django**, **Laravel**, and **Node.js** by administering web servers like **Apache**, automating deployment processes, and monitoring with **Zabbix**.
- Built two content portals, including plugins and themes using **PHP**, **Bootstrap**, and **jQuery**: one with **Drupal** for publishing documentation about the Cray XT-6 supercomputer, the other with **WordPress** for publishing standard operating procedures.

SKILLS

- Languages: **English** (C1), **Portuguese** (native)
- Programming languages: **Ruby** (3 years), **PHP** (10 years), JavaScript, Python, Bash
- Frameworks and libraries: **Rails** (3 years), **Laravel** (5+ years), React, Vue
- Databases: **PostgreSQL** (10+ years), **MySQL** (10+ years), Elasticsearch, Redis
- Services and tools: **AWS** (4 years), Azure DevOps, Jira, GitHub, **Docker** (4 years), Git, Linux, macOS, Windows

CERTIFICATIONS

- Professional **Scrum Master I** (PSM I) and Professional Scrum **Product Owner I** (PSPO I) Scrum.org
- **Kanban** Management Professional (KMP) and **Scrum** Kanban Practitioner (SKP) Kanban University
- Certified Associate in **Project Management** (CAPM) Project Management Institute

EDUCATION

Associate degree in IT Management
Fatec Guaratinguetá, São Paulo, Brazil

2016