

Rafael M. Miller

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Skills

JavaScript | TypeScript | Node | Express | React.js | Next.js | React-Native | Vue | Python | LLM | Artificial Intelligence | Machine Learning | SQL | MySQL | PostgreSQL | Supabase | NoSQL | DynamoDB | MongoDB | AWS | CI/CD | Jest | Unit Testing | TDD | SOLID Principles | Clean Arch | Microservices | Distributed Systems | Lambda | Serverless | Frontend | Backend | Full-Stack | Scrum | Agile | UX | English, Portuguese

Experience

Firecrawl | Mendable.ai (YC22): Principal Full-Stack Engineer *(Remote - San Francisco, CA, USA)* **11/2023 - Current**

- Developed and optimized a **crawler/scrapper** tailored for **LLM pipelines**, providing customizable solutions for major clients like Zapier. Enhanced **Express/BullMQ** API to support over **300,000 daily scraping requests**.
- Partnered with the CTO on **architecture** and **development** to ensure **scalability** and **maintainability** aligned with **product priorities**.
- Led infrastructure projects, including a **Google Cloud** migration with **Kubernetes**, cutting **request time** by **45%** and **reducing monthly costs by 32%**
- Implemented **Clean Architecture** and **SOLID principles**, enabling **GDPR-compliant** use of **SQL (Supabase)** and **NoSQL (MongoDB)** databases for **EU clients**.

Lampejo: Principal Software Engineer *(Remote - São Paulo, SP, Brazil)* **10/2020 - 11/2023**

- Designed and developed an educational WebApp and API with **React**, **Node**, **DynamoDB**, and a **React Native** app, supporting high school students in ENEM (SAT-like exam) preparation, with **62,000+ MAUs** and **350,000+ downloads**.
- Built scalable, cost-effective **AWS** infrastructure using **Serverless**, enabling **millions of daily requests**; conducted rapid MVP iterations and UX validation with **Figma** and **Maze**. Integrated **OpenAI GPT-4** for essay corrections, enhancing app capabilities.
- Executed backend migration to **TypeScript**, **Clean/SOLID principles**, **TDD**, and **CI/CD** with **GitHub Actions**, boosting maintainability, reducing bug fix time by 30%, and expediting onboarding for new developers.

FRST: Full-Stack Developer and Tech Leader *(São Paulo, SP, Brazil)* **11/2019 - 10/2020**

- Led the team of five developers into implementing a B2B professional education solution using the JavaScript technologies with **React**, **React-Native**, **Node**, **MySQL** using **AWS** Cloud infrastructure.
- Transition from outsourced development model to in-house software engineering team; Application of **Scrum** and **Agile** methodologies for measure and monitor feature delivery. Improvement for the technical product knowledge, accelerating feature development, enhancing product quality and reducing the development costs by over 65%.

NEOMOVE: Data-Science and Engineering Leader *(São Paulo, SP, Brazil)* **06/2018 - 10/2019**

- Guided a team of 18 Developers and Data-Scientists consultants execution of numerous Data and Machine Learning proof of concept projects for major Brazilian enterprises.
 - **No-Churn Model:** solution to detect 'fake-canceling' calls and automate discount offers, saving over **\$10 million annually**.
 - **Data Warehousing:** Built a Data Lake with ETL processes using **Python**, **AWS Redshift**, **AirFlow**, **Spark**, and **Hadoop** to analyze telemarketing data, enabling pattern recognition and reducing maintenance-related call issues by **6%**.
- **Machine Learning Engineering Products:** Developed continuous learning models for transcribing and clustering millions of monthly calls and built data analysis dashboards with **Vue**, **AWS Redshift**, **SageMaker**, and **Lambda**.

Hypercube: Freelancer Full-Stack Developer *(São Paulo, SP, Brazil)* **12/2017 - Current**

- Developed enterprise applications for internal and B2B file management and digital signature workflows in Radiodiagnosis and Nuclear Medicine, using **Vue**, **Node**, **MongoDB**, and **AWS EC2**.
- Built an e-commerce website for online courses for Brazilian Bar Association (AOB) exam preparation, using **PHP Magento** and **MySQL**.

BEES (menu.com.vc): Full-Stack Software Engineer *(São Paulo, SP, Brazil)* **01/2016 - 12/2017**

- Built a marketplace platform for connecting restaurants and grocery stores to numerous suppliers using **PHP Magento Framework** and **MySQL**. Created a **Backend** service using **Node** to enhance Magento Back-office functionalities by decoupling marketplace purchases and splitting to suppliers via connection with multiple Enterprise Resource Planning systems.
- Guided international outsourcing team in developing **Android** and **iOS** apps.

Education

Bachelor of Science **Universidade de São Paulo** *São Paulo, SP, Brazil* **01/2011 - 12/2015**

- Major in Physics