

Rafael Leitao

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EDUCATION

San Francisco State University
Bachelor of Science in Computer Science

San Francisco, CA
May 2024

EXPERIENCE

NeuroLeap
Software Engineer Intern

San Francisco, CA
Oct 2023 – Present

- **Developed** a **RESTful API** using **Golang**, which computed and retrieved essential user characteristics and engagement metrics, enhancing data accessibility and interchange. Validated API functionality and performance through extensive testing with **Postman**.
- **Optimized SQL queries** for large-scale database systems using **PostgreSQL**, ensuring **efficient data retrieval** and robust management. Utilized the **pg_stat_statements** extension to monitor and measure query performance, contributing to a **5% improvement in system response times** and significantly enhanced **user satisfaction**.
- **Collaborated** on the development and deployment of a synchronization strategy between multiple local databases and a central **AWS-based cloud database**, optimizing inbound data flows. This strategic focus ensured the **AWS server** was consistently updated with the latest information, achieving a reduction in data synchronization latency.

Plennus IT Services
Database Administrator

Remote – Brazil
Jul 2022 – Jan 2023

- **Contributed** with cross-functional teams to successfully migrate critical data tables from **MySQL** to **Oracle database**, enhancing data integrity and system scalability. This migration streamlined data operations, **improved query performance by 7%**, and ensured greater compliance with enterprise-level security standards, as verified through rigorous **benchmark testing**.
- **Supported** a team at **Plennus IT Services** to **develop and maintain a complex database infrastructure** for **BOMBRIL**, comprising **over 40** interconnected tables. Implemented stringent documentation practices and code management strategies to ensure **high data integrity** and support advanced data analysis and reporting.

SKILLS

Technical Languages: Python, Golang, C++, Java

Web Technologies: Node.js, JavaScript, CSS, HTML

Databases: MySQL, PostgreSQL, OracleDB

Version Control: Git

Certifications & Training: Google Data Analytics, AWS Certified Cloud Practitioner, Tableau

PROJECTS

California Evacuation Alert.

- **Web application** that centralizes critical risk data on California's natural disasters and public threats, enhancing public safety. Built with **AWS, MySQL, Django, Python**, and integrated **Google Maps** for **real-time alerts**.

Macro Spending Analyzer

- **Financial management application** built with **SwiftUI** and **SQLite** that enables users to track their spending through **intuitive visualizations**, significantly **enhancing personal budgeting** and financial planning capabilities.

Autonomous Car

- An autonomous line-following car using a **Raspberry Pi 4**, programmed in **C++** for enhanced robotic navigation and **real-time obstacle detection**. The project involved integrating various sensors and motor controls, significantly improving response capabilities and navigation accuracy.