Rute de Souza

+55 (48) 996868654 | rute00801@gmail.com | www.linkedin.com/in/rute-souza-yacy

EXPERIENCE

Software Engineer   2023 - Present

Vy Labs   *Santa Clara, California, USA*

- Demonstrated proficiency with Amazon Web Services (AWS), including the management of services like ECS, S3 buckets, IAM roles, Secrets Manager, and Lambda functions. Optimized cloud infrastructure by transitioning from Terraform to Pulumi, enabling more efficient infrastructure as code practices.
- Refined deployment processes by establishing robust production and staging environments, significantly improving deployment efficiency. Experience in Docker, including Dockerfile refactoring for enhanced efficiency.
- Developed a Django application utilizing WebSocket channels for real-time communication and migrated backend logic to a Golang-based infrastructure, evidencing proficiency in both dynamic and statically typed languages.
- Configured and optimized databases and caching mechanisms, employing PostgreSQL and Redis. This includes setting up Redis caches with Pulumi and integrating database logic into Django applications, ensuring high performance and scalability of applications.
- Focused on optimizing code structure, background tasks, and AWS resource utilization. Automated crucial processes, such as Slack notifications for deployment via GitHub Actions and CloudWatch, and developed scripts for efficient secrets management and deployment processes.
- Optimized the logic for extracting text from resumes, leveraging LLMs to parse and interpret the data.

Software Engineer   2020 - 2021

Flingzy   *Los Angeles, California, USA*

- Developed JWT token-based authentication implemented in Next.js and TypeScript, ensuring secure access through protected routing and other advanced security features.
- Redux leveraged for state management, facilitating interactions between components.
- Improved website performance and user experience by optimizing images and implementing efficient pagination systems.
- Custom media queries and flexible layouts, making the application universally accessible across various mobile and desktop platforms.

TECHNICAL SKILLS

Languages: Python, C++, Java, Golang, Javascript, TypeScript
Databases: ElasticSearch, MySQL, PostgreSQL, MongoDB
Concepts: Data Structures, Asynchronous Programming, RESTful APIs, Microservices Architecture, Object-Oriented Programming, LLM, Database Design and Optimization, Performance Tuning.

PROJECTS

Product Usage Analytics System | *Python, NumPy, Grafana*
- Engineered a Python-based data processing application using NumPy to parse and transform product usage metrics for real-time analytics and trend monitoring.
- Implemented data formatting scripts to convert raw usage data into a Grafana-compatible format, enabling seamless integration and visualization for other developers.

Kindergarten Attendance System | *Python, SQLite*
- Developed a user-friendly attendance tracking application for a local kindergarten, allowing educators to mark attendance with minimal clicks.
- Implemented an automated alert system in Python, which notifies teachers of unaccounted for absences via email.

Movie Streaming | *React, JavaScript*
- Using the TMDB API to obtain data and implement login functionalities with Firebase Authentication. The front-end works in conjunction with the Firebase back-end for efficient management of user data.

AI Image Generation | *MongoDB, Express.js, React.js, Node.js*
- The Full Stack MERN AI image generation application, with MERN technology and the incorporation of artificial intelligence, was developed as a key project within a frontend training program to generate images based on user preferences.