

Robert Martinez Marengo

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Permanent Resident in Toronto, ON

Summary

Software Engineer with 3+ years of experience designing and building scalable, cloud-native backend microservices. Proven ability delivering robust, containerized solutions optimized for performance and reliability by leveraging expertise in API design, database management, and CI/CD automation. A quick learner known for rapidly adapting to new projects and technologies. Seeking a challenging role in a fast-paced, collaborative environment that offers meaningful work and opportunities for continuous growth.

Work Experience

Software Engineer at Achievers, Toronto

November 2022 - Present

- Designed, developed, and maintained cloud-based Python microservices, implementing best practices for scalability, fault tolerance, and data consistency in a distributed environment.
- Created and maintained reusable GraphQL endpoints, using Fastify, Node.js and TypeScript. These served as a gateway and data aggregation layer between gRPC microservice endpoints, legacy REST API endpoints and the front-end application.
- Utilized Google Cloud Platform (GCP) services including Kubernetes Engine, Artifact Registry, Pub/Sub, gRPC, Cloud Storage Buckets, and Secret Manager for application deployment, communication, and storage.
- Maintained highly available order processing and vendor integration services for a marketplace platform handling 10+ orders/min (\$10M+ 2024 revenue). Resolved critical production issues within SLAs as part of an Agile Scrum team.
- Contributed significantly to integrating external services APIs—such as Netsuite and Akeneo—into our platform to streamline business processes, improving efficiency in the product merchandising pipeline by 66.6%.
- Optimized database operations by migrating expensive MySQL queries to read-only replicas after identifying bottlenecks during execution. Increased performance in microservice endpoints by implementing caching layers using Redis.
- Developed a proof of concept for CI/CD pipeline optimization that demonstrated a 50% reduction in build times, leading to a company-wide adoption.

Web Developer at Tecnoglass, Colombia

November 2021 - November 2022

- Developed multiple web applications using Python, Django, HTML, CSS, and JavaScript, with PostgreSQL as the database. This was part of an initiative to reduce paperwork and optimize business processes.
- Developed a centralized RESTful API to handle authentication across multiple web applications, internally connecting to an LDAP Active Directory user database, using Flask and Python.
- Designed and implemented a temperature and humidity monitoring system in glass assembly plants using LoRaWAN. Led the entire hardware selection, configuration, and installation process, and developed a real-time dashboard using Python, Django Channels, Websockets, HTML, JavaScript, and CSS.
- Played a major role in containerizing applications and deploying in bare-metal on-premise servers using Docker and Docker Compose.

Education

B.Sc. in Electronic Engineering from Universidad del Norte, Colombia

Graduated March 2023

- Graduated cum laude in recognition of the excellence of my final thesis and academic performance.

Skills

- **Languages:** Python, JavaScript, SQL, TypeScript, PHP, HTML, CSS.
- **Frameworks:** Flask, FastAPI, Django, GraphQL, React.
- **Cloud & DevOps:** Google Cloud Platform (GCP), AWS, DroneCI, GitHub Actions.
- **Technologies:** MySQL, PostgreSQL, Redis, gRPC, PubSub, Docker, Kubernetes.