

# Robert Martinez Marengo

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Permanent Resident in Toronto, ON

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## Summary

Software Engineer with 3+ years of experience in designing and developing scalable cloud microservices and full-stack web applications. Proven ability to translate complex business requirements into robust, containerized solutions using Python, TypeScript, React, and modern CI/CD practices. 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 for a global B2B SaaS, utilizing Google Cloud services—such as gRPC and PubSub for service communication and Kubernetes (GKE) for scalable deployment.
- 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.
- Developed React components (JavaScript) across multiple micro frontends managed by the Single SPA framework, collaborating closely with Product and UX Design teams to implement features based on Figma prototypes.
- 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 full stack 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:** React, GraphQL, Flask, FastAPI, Django.
- **Cloud & DevOps:** Google Cloud Platform (GCP), AWS, DroneCI, GitHub Actions.
- **Technologies:** MySQL, PostgreSQL, Redis, gRPC, PubSub, Docker, Kubernetes.