

Erick González

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EDUCATION

Tec de Monterrey

Bachelor in Computer Science

Monterrey, NL

Aug. 2017 – May 2022

University of Toronto

Exchange Program

Toronto, ON

Aug. 2021 – December 2021

EXPERIENCE

Sailpoint Technologies

January 2024 – Present

Software Engineer—Cybersecurity company that handles identity management and data access Monterrey, Mexico

- Developed and executed performance tests in **Kubernetes** hosted in **AWS EC2** services using **k6**, which saved \$100k in resource allocation and improved the platform's response performance from 10 seconds to 50 milliseconds
- Exported logs to **AWS S3** buckets using **AWS Cloudwatch** to monitor the performance and availability of the platform from **PostgreSQL** databases, resulting in early detection of issues and reduced downtime 40%

Globant Consulting

Jan. 2022 – Dec. 2023

Software Engineer—Performs auctions for the vehicle market and provides real-time pricing data Monterrey, Mexico

- Conducted cloud load testing with **k6 framework** for services up to 100k RPS of throughput and implemented CI/CD asynchronous pipeline for different infrastructure teams on an online dealer auction platform ensuring that the platform could handle a high volume of traffic and data
- Analyzed **New Relic** results to provide optimal resource management for **Kubernetes** across multiple services, improving platform performance and cost optimization

Kodda MX

August 2020 – December 2021

Backend Engineer—Fintech app that handles insurance claims for the medical sector Monterrey, Mexico

- Maintained application flow for medical claims and insurance policies, which was accepted into the prestigious **YC Startup Batch** in the Summer of 2021
- Built out features such as user authentication, data visualization, and form validation, using **JavaScript**, which improved the accuracy and efficiency of data entry for healthcare providers
- Deployed the application environment using **Google Cloud Platform** and **NodeJS**, which resulted in an auto-scalable by thresholds and secure infrastructure that could handle a traffic volume up to 300k TPS
- Prepared and documented process for the YC batch application for the summer of 2021

PROJECTS

Synthetic Data Generation | Python, AWS, Streamlit, Langchain, OpenAI

Winter 2024

- Designed and deployed a data generation platform using Streamlit and LangChain, producing over 10,000 contextually accurate synthetic records in under 5 minutes for scalable machine learning models
- Built a dynamic chatbot feature that increased user engagement by 40%, enabling the generation of tailored datasets across 5+ distinct use cases during the hackathon

Hackathon Auction | Python, AWS, New Relic, Kubernetes, Docker

Winter 2023

- Developed multiple solutions that allow dealership users to improve image upload/download time by implementing different cache strategies through Amazon CloudFront and increased 28% in image download across multiple regions
- Developed a parallel pipeline with 4 jobs, including cache in the through content loading and the backend side

Lambdish | Golang, Gocc, Git

Winter 2021

- Designed and developed a compiler for a new language that allows beginners to understand the functional language and use of lambda calculus using semantical checking and code generation written in Go
- Lexical and Syntactical analysis generated by the tool **GOCC**

TECHNICAL SKILLS

Languages: Javascript, Python, C/C++, SQL, Golang, Typescript, PostgreSQL

Frameworks: React, Node.js, Grafana tools, k6, Locust, ExpressJS, NestJS

Developer Tools: Git, Docker, Jenkins, Google Cloud Platform, VS Code, Visual Studio, AWS, IntelliJ, New Relic, Xcode