

Ernesto Casco

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EDUCATION

Tecnologico de Monterrey

Bachelor in Computer Science

- GPA: 3.7/4.0

Toluca, State of Mexico

Aug 2018 – Dec 2022

EXPERIENCE

Software Engineer

Qualtrics

July 2023 – Present

Mexico City, MX

- Write backend scripts in Golang to automate processes and improve service efficiency.
- Fix UI bugs using React, ensuring smooth and responsive user interfaces.
- Monitor and troubleshoot error codes and latency issues, ensuring minimal downtime and optimal performance.
- Collaborate in an AGILE environment, consistently delivering on sprint goals and improving development cycles.

Software Engineering Sr Analyst

PepsiCo

January 2023 – July 2023

Mexico City, MX

- Developed 20+ screens from the front and back-end perspective to help managers see revenue and simulate price changes in products.
- Delivered 50+ tickets of high-quality and thoroughly-tested code in close time frames.
- Managed teams of 3+ developers to help them onboard and improve code quality.
- Provided insightful opinions with product teams to design platform architecture.

Solutions Engineer

Facebook

January 2022 – December 2022

Mexico City, MX

- Implemented a big data system using Python and SQL that tracked the most viewed, purchased, and added to cart products from advertisers' websites, increasing ROAS by 20% for clients.
- Developed a logging system using Hack to store valuable data from the NFT-claiming funnel, impacting 10+ million people on Instagram.
- Collaborated with 5+ Facebook advertisers to reach business objectives, impacting \$100K+ in advertising spending for Meta.

Software Development Engineer Intern

Amazon

June 2021 – August 2021

Mexico City, MX

- Developed back-end system with Python and AWS to filter 100,000+ Amazon products by drugs that needed prescriptions, ensuring compliance with federal regulations.
- Delivered analysis on why complying with federal drug regulations could save Amazon \$10,000+ USD in fees.

Full-Stack Engineer

Ideen MX

June 2020 – October 2021

Mexico City, MX

- Created the *Kuida.io* app and web page that helps women track their menstrual cycle, find nearby doctors, and get healthy diets.
- Developed API with NodeJS to process payments via the Stripe API.

PROJECTS

Makemore Drum Rhythms | *Python, TensorFlow, Matplotlib, Numpy*

January 2023 – Current

- Followed the course "Intro to Neural Networks" by Andrej Karpathy to create a neural network that takes drum tabs in JSON format as input and outputs similar rhythms using gradient descent.

C-Minus Compiler | *Python, C, Git*

January 2022 – May 2022

- Developed a C-Minus compiler from the ground up using Python and Regex.
- Published the compiler within the Git network, helping 10+ students from different schools across the country.

FRC Scouting System | *Python, PHP, MySQL, Git, JavaScript*

January 2019 – May 2019

- Developed an app that helped students track events in real-time for the 2019 Robotics Competition.
- Created a big data model with Python using *PyTorch, Pandas, and TensorFlow* to analyze 5,000+ data entries in real-time and deliver statistics such as mean, standard deviation, and projections for future competitions.

TECHNICAL SKILLS

Languages: Python, C, C++, Hack, PHP, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, JUnit, Flutter, VueJS

Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib, PyTorch, TensorFlow