

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 Engineering Sr Analyst

PepsiCo

January 2023 – Current

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 could track which were the most viewed, purchased and add to cart products from an advertiser's website. Return-on-ad-spent metric was incremented by 20% for clients that used the algorithm
- Developed a logging system using Hack to store valuable data from the NFT-claiming funnel impacting 10+ millions of people on Instagram
- Worked with 5+ Facebook advertisers to reach their business objectives. Impacted on 100K+ dollars 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 prescription in order to comply 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 near 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 make a neural network that takes drum tabs in JSON format as input and outputs more rhythms similar to the initial using gradient descent.

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

January 2022 – May 2022

- Developed a C-Minus compiler from bottom to top using Python and the Regex library
- Published the compiler within the Git network, helping 10+ students from different schools around 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 the libraries *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