Ernesto Casco

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EDUCATION

Tecnologico de Monterrey　　　　　　　　　　　　　　　　　　Toluca, State of Mexico
Bachelor in Computer Science　　　　　　　　　　　　　　　　　　*Aug 2018 – Dec 2022*
- GPA: 3.7/4.0

EXPERIENCE

Software Engineering Sr Analyst　　　　　　　　　　　　　　　January 2023 – Current
PepsiCo　　　　　　　　　　　　　　　　　　　　　　　　　　　*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

INTERNSHIPS

Solutions Engineer Intern　　　　　　　　　　　　　January 2022 – December 2022
Facebook　　　　　　　　　　　　　　　　　　　　　　　　　*Mexico City, MX*
- 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 1M+ dollars in advertising spending for Meta
- 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

Software Development Engineer Intern　　　　　　　　　　June 2021 – August 2021
Amazon　　　　　　　　　　　　　　　　　　　　　　　　　*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　　　　　　　　　　　　　　　　　June 2020 – October 2021
Ideen MX　　　　　　　　　　　　　　　　　　　　　　　　*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
- Developed a neural network that takes drum tabs in JSON format as input and outputs more rhythms similar to the initial using gradient descent and more methods

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