Carlos Efrain Quintero Narvaez

ITESM (Tecnológico de Monterrey) – Monterrey, Mexico

M.Sc. in Computer Science

UNAM – Mexico City, Mexico

B.Sc. in Mathematics

efrainq07@gmail.com Efraing07

www.efraing.com

Technical Skills: Python, Pytorch, C++, Java, Typescript, SQL, MSSQL, AWS, .NET, React, Angular

Work Experience

December 2023 Amazon. Software Engineer II.

Working on the Amazon Photos team using Java on the backend to orchestrate and homogenize -Present

interface personalization settings across all the Amazon devices.

May 2023 TechDetech. Blockchain and Back-End Engineer.

Responsible for Smart Contract development and Web3 integrations for projects in a wide range of -December 2023

fields such as game development and venue ticket sales platforms.

October 2022 Meta. Software Engineer I.

Contributed to the development of the Instagram Developer Platform API, utilizing GraphQL to expose - January 2023

relevant data to business consumers.

October 2021 GeoptData Consulting Services. Software Engineer.

Developed and maintained OLAP Cubes in Microsoft SSIS and dashboards in .NET for Business - October 2022

Intelligence in corporate databases for renowned Mexican companies such as FEMSA, Cruz Azul and

Farmacias del Ahorro.

Google. Software Engineer Intern. June 2021

Worked on the Security Engineering team and contributed to the implementation of new authentication - September 2021

protocols for internal Google tools.

Facebook. Software Engineer Intern. January 2021

Contributed to the open-source project FlexFlow for optimization of parallelization strategies in Deep - April 2021

Learning while working on the Facebook Artificial Intelligence Research (FAIR) team.

Projects

P3rsonalities. May 2023

Web3 hackathon project with a Zero Knowledge Proof implementation for attestation of questionnaire result evaluation. With the purpose of developing a network of verifiable identities that connects companies with professionals according to their needs. An academic paper was written with the results

from this project.

FlexFlow. (flexflow.ai) January 2021

Contributed to the development of a deep learning tool that accelerates training using many GPUs for

distributed computations with different parallelization strategies.

Published Work

Circuit Implementation and Analysis of a Quantum-Walk Based Search Complement Algorithm. May 2024

Proposal and implementation of a modified quantum walk-based search algorithm. Executing it

experimentally on IBM quantum processors.

March 2024 Integrating Knowledge Graph Data with Large Language Models for Explainable Inference.

Proposal for a method to enable Large Language Models like LLaMA to access Knowledge Graph (KG) data and justify their text generation by showing the specific data the model accessed during inference. Presented at the 17th ACM International Conference on Web Search and Data Mining.

Zero-Knowledge Proofs for Questionnaire Result Verification in Smart Contracts. September 2023 Implementation of a Web3 platform that leverages the Groth16 Zero-Knowledge Proof schema to verify

the validity of questionnaire results within Smart Contracts. Presented at CISMA 2023.