

MARCO ANTONIO CHACÓN AMARO

Software Developer | Applied Mathematician

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EDUCATION AND CERTIFICATES

Instituto Tecnológico Autónomo de México (ITAM, GPA: 9.2/10)

Mexico City, MX

B.S. Applied Mathematics, minor in Computer Engineering

August 2016 – May 2022

- Excellence in Engineering Scholarship (originally majoring in computer engineering).
- **Research Thesis:** Performance of Collaborative Filtering Methods for Recommender Systems.
- **Relevant Courses:** Computer Applications, Algorithms, Artificial Intelligence, Machine Learning, Applied Statistics.

ZTM

ONLINE

Front-End Developer Bootcamp Project

October 2022 – Present

- Developing an e-commerce website using the most recent React.js features to build a scalable, performant, and easy to maintain application along with Typescript, GraphQL APIs, Firebase Backend and hosting it on Netlify.

Web Developer Bootcamp Project

December 2021 – March 2022

- Programed a Face Detection App with a React.js Frontend, a Node.js API backend developed with Express.js, and a PostgreSQL database that stored users.

MITx:

ONLINE

Machine Learning with Python-From Linear Models to Deep Learning

December 2021 – March 2022

- **Projects:** Automatic Review Analyzer (Regression and Classification Models), Digit Recognition System (Deep Learning), Collaborative Filtering via Gaussian Mixtures, Reinforcement Learning Text-Based Game (Q-value Iteration).
- **Technologies:** Python, PyTorch, Numpy.

DeepLearning.AI

ONLINE

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

January 2021

Neural Networks and Deep Learning

February 2021

SKILLS

Programming Languages

Python, Java, JavaScript/Node.js, Typescript, PHP/Hack, R.

Spoken Languages

English (Advanced), Spanish (Native).

Software Technologies

React.js, Express.js, SQL, MongoDB, Django, GraphQL, Django, HTML5, Sass, Linux, Git, GitHub.

WORK AND RESEARCH EXPERIENCE

ITAM

Mexico City, MX

Thesis Researcher

January 2022 - Present

- Comparing recommender systems collaborative filtering methods through machine learning, matrix factorization, probabilistic, real analysis, and optimization techniques.
- Implementing models using state of the art technologies like python, numpy, scikit learn, matplotlib and seaborn.
- Analyzing empirical market data to test performance and validate analytical techniques.

META (FACEBOOK)

Menlo Park (Team) – Mexico City (Remote Location)

Software Engineer Intern – Recruiting Technologies

August 2021 – November 2021

- Designed and developed an end-to-end full stack web app to increase candidate ingestion into the recruiting funnel and improve recruiter's candidate application management.
- Implemented the Back End using PHP/Hack, making calls to a graph database, and exposing API endpoints through GraphQL. Implemented the Front end using React and TypeScript using reusable components and state of the art practices.
- Acquired communication, documentation, search, and time management skills to be successful in a cross-functional and high-paced work environment.

SESPEC

Mexico City, MX

Software Engineer Intern – Risk Management

January 2021 – June 2021

- Coordinated external/internal software providers to deliver quality software products for infrastructure risk management with limited time and resources to clients.
- Developed CRM, BI, and geographical dashboards tools using Python, Django and React.

SESPEC

Mexico City, MX

Data Science Intern – Risk Management

March 2020 – December 2020

- Implemented a vulnerability index classifier in R using fuzzy and unsupervised learning models that helped the local government allocate resources for people vulnerable to COVID-19.
- Implemented Data Pipelines in Python and Java that resulting in a 60% decrease in time to gather, clean, and process information from different API's, plain texts, and websites.

ITAM

Mexico City, MX

Teaching Assistant - Mathematics

August 2019 – December 2019

- Acquired communication and presentation skills by giving Calculus Laboratory to 20 students.

LEADERSHIP AND VOLUNTEERING EXPERIENCE

SIAM Student Chapter Representative (Student Org)

Mexico City, MX

Secretary

August 2021 – July 2022

- Organized and budgeted events to allow graduate and undergraduate STEM students to present their research projects to a large audience, network with other researchers, and connect with industry experts.

ITAM Construye (Student Organization)

Mexico City, MX

Program Manager

August 2018 – May 2020

- Increased enrollment to the program by 75% by organizing more events, implementing dynamic activities, and supervising quality of lessons all with limited resources.