Erick Castañeda Martínez
Software Engineer

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EDUCATION

Computer Engineering, B.S.   Aug 2018 – Jun 2023
Superior School of Computer Sciences (ESCOM, IPN)

Informatics, Technical Degree   Aug 2015 – Jun 2018
Center of Scientific and Technological Studies #12 (IPN). During high school.

MAJOR PROJECTS

CoronAImage   Dec2020
Web application where users upload a chest tomography and the app tells you if the patient is COVID19 positive or not.
- Designed and developed frontend the frontend using React.
- Styled using Chakra UI component library.
- Communicates with a Flask server created

Library Manager   Mar 2020
CRUD desktop application for managing library materials borrowing
- Using JDBC middleware for connecting Java application with a relational database (MySQL).

NFA String Validator   Mar 2020
Validates character strings receiving their NFA state-transition table.
- Console application built using C++.

Derivatives & Integrals Calculator   Nov 2019
Computes some derivative and integrals, receiving a symbolic string with the function.
- Graphical user interface created using PyQt5
- Calculations using SymPy

*For a complete list of projects, please visit my **portfolio***: *github.com/erickcm2k*

SKILLS

CODING SKILLS

2 years:
- **C++** (11+ for competitive programming)
- **C**

1 year:
- **Python, Java**
- **JavaScript** (ECMAScript 2015+, focusing on React and Node)

6 months:
- **MATLAB, TypeScript**

TECHNOLOGIES & TOOLS
- HTML5, CSS3 (BEM, flex, grid, SASS), jQuery, Bootstrap, TailwindCSS.
- Node, SQL (MySQL, PostgreSQL), MongoDB (NOSQL), ReactJS, ChakraUI.
- Bash, Git, GitHub, Heroku, Vercel, Netlify, GitHub Pages, Figma

COURSES & APPRENTICESHIP
- **Udemy Student:** 3 MERN (MongoDB, Express, React, Node) stack related courses.
- **IBM Intro to DS:** Learning Pandas, NumPy, Matplotlib and SymPy.

Communities & Volunteering

DEVELOPER COMMUNITIES

Web Development Club   Feb 2020 - present
Students club where I'm learning frontend and backend development using Node and React.

Competitive Programming Club   Aug 2020 - present
Here we learn how to efficiently solve competitive programming problems using data structures and algorithms with the aim of competing on ACM ICPC.

VOLUNTEERING

Alimenta   Oct 2019

Participation in food collecting "Alimenta 2019". Collaboration with Mexican marines.