

ALBERTO SILVA CAZARES

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in alberto-sc

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MCER B2+

Computer systems engineer & Full stack developer

CDMX, México

alberto-sc.vercel.app

ABOUT

I am a software engineer with skill set in software development, specializing as a full-stack developer although with a preference for back-end development. My expertise lies in tackling intricate challenges that demand optimization, algorithm development, and complex problem solving. I am deeply passionate about embracing a DevOps mindset and cultivating a culture centered around it.

RELEVANT EXPERIENCE/PROJECTS

Dochain 2022
dochain.vercel.app <https://github.com/Dochain1>
Develop of a DAPP that allow you to store private and shareable files in blockchain (Work in backend)

- Blockchain and smart contract as backend
- Development of graphql server that works as a hub for many services
- Use of The graph protocol to index blockchain data

Node js GraphQL Truffle suite The graph protocol

Safemessenger 2021
Safemessenger.xyz (main service down because cost)

Degree project, creation of an artificial intelligence to classify text

- Use of convolutional neural networks
- Use of web sockets to real time messages
- Creation of a messaging service using react js

Node js React js Socket io Tensorflow flask nginx

Freelance 2021
Development of internal web application to manage employees' finances

- Creation of CRUD dashboard to manage employee information
- Deployment in a private and secure environment.
- Creation of reports in pdf form ready for printing

HTML CSS Python Django SQL

Conway game of life web implementation 2020
<https://github.com/alberto-sc/Game-Of-life>
Implementation of the famous Conway's game of life

- A partial implementation of the algorithm hashlife to get space optimization with infinite canvas
- Development of a datastructure quadtree to improve performance
- Use of D3 js for visualization of large set of data

Javascript HTML canvas D3 js

Competitive reference since 2020

<https://github.com/Alberto-SC/Reference>
A collection of several algorithms usefull for competitive programming and solutions of many programming challenges/contest

- More than 2000+ solutions to programming challenges
- More than 20+ ICPC contest included regional finals of many countries

C++ python Latex React Next js

EDUCATION

Bachelor's degree in Computer Systems
Escuela superior de cómputo

2017 - 2022

Ethereum developer programm
Platzi - Ethereum foundation

May 2022 - October 2022

Online education

Platzi, udemy, freecodecamp

2020 - Ongoing

TECHNICAL SKILLS

Fullstack development

Javascript HTML & CSS React Node Next js
GraphQL SQL MongoDB Prisma(ORM)

Blockchain development

Hardhat Truffle suite The graph protocol Web3 js / ethersjs
Rust

DevOps related

Linux server administration Docker Nginx Kubernetes
Terraform [GCP skillbost profile](#)

Cloud

Aws Azure (AZ-900 certified) GCP Digital ocean

PROGRAMMING LANGUAGES

Javascript 3+ years Mainly for Fullstack development
Python 4+ years intermeditate in data science and competitive programming,also some knowledge in web frameworks (django,flask)
C++ 6+ years Mainly for competitive programming
Rust/go half year Backend development
Latex 3+ years To create documents, like this resume template and educational material
Bash/Lua 1+ years Basic-Intermeditate scripting and to some personal tools

AWARDS AND ACTIVITIES

ICPC contestant
Participant of grant prize of México 2022/23 finishing in 13th place of 200+ teams, and also participant in 2021,2020,2019 & 2018, for the other years see [ICPC ID](#)

Competitive programmer
As part of my training for the ICPC contest, but also as a hobby usually I participate in most of the most famous competitive platforms like (Codeforces , CodeChef , LeetCode) being part of the top 1% worldwide in some of them competing with more than 100k active users, [Other rankings](#)

Teacher
As a contribution to the community I was a teacher on topics related to competitive programming such as advanced data structures, string algorithms and binary search. in order to offer high quality preparation to attend to attend the ICPC competition and find a place in the regional finals, I also used to publish solutions to algorithmic challenges at [LeetCode](#).