ALBERTO SILVA CAZARES
Computer Systems Engineer

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in alberto-sc   alberto-sc   💬 MCER B2+

ABOUT

I am a software engineer with skill set in software development, with a preference for backend 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
- Develpment 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 - 2023

Ethereum developer programm
Platzi - Ethereum foundation
📅 May 2022 - October 2022

Online education
Platzi, Udemy, Freecodecamp,Coursera
📅 2020 - Ongoing

TECHNICAL SKILLS

Development

`Javascript` `HTML & CSS` `React` `Node` `Next js` `SQL` `python` `Django` `scikit-learn`

DevOps related

`Linux` `Docker` `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
Latex 3+ years	To create documents, like this resume template and educational material

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.