

ALBERTO SILVA CAZARES

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alberto-sc

Computer systems engineer & Full stack developer

CDMX, México

alberto-sc.vercel.app

ABOUT

A software engineer with solid knowledge in software development as Full stack developer, focus in solve complex problems that need optimization or development or complex algorithms.

RELEVANT EXPERIENCE

Dochain

2022 - current

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 useful 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 program

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

Solidity Hardhat Truffle suite The graph protocol

Web3.js / ethers.js Rust

DevOps related

Linux server administration Docker Nginx Azure DevOps

Cloud

Aws Azure GCP Digital ocean

PROGRAMMING LANGUAGES

Javascript Mainly for Fullstack development

3+ years

Python

4+ years

intermediate in data science and competitive programming, also some knowledge in web frameworks

C++

6+ years

Mainly for competitive programming

Rust/Solidity

half year

For backend using blockchain, focus in front end integrations

Latex

3+ years

To create documents like this resume template and educational material

Bash/Lua

1+ years

Basic-Intermediate scripting and to some personal tools

AWARDS AND ACTIVITIES



ICPC contestant

Participant of grand prize of México 2022 in current top 6 of 200+ teams, and also participant in 2021, 2020, 2019 & 2018, for the other years see <https://icpc.global/ICPCID/44QVI83TR89J>



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: Various 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.