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Software Engineer

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EDUCATION

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

PROJECTS

Longest Common Subsequence
December - 2020

React Web application designed for visualizing an animation of the longest common subsequence algorithm.

- Shows both bottom-up and top-down approaches.
- Developed using React and styled using Chakra UI component library.

CoronAImage
December - 2020

React Web application where users upload a chest tomography and the app tells you if the patient is COVID19 positive or not.

- Developed using React and styled using Chakra UI component library.
- Communicates with a Flask server.

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Library Manager
Mar - 2020

CRUD desktop application for managing library materials borrowing

- Using JDBC middleware for connecting Java application with a relational database (MySQL).

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

SKILLS

CODING SKILLS

2 years:
- **C++** (Modern 11+)

1.5 year:
- **JavaScript** (ES5+, focusing on React and Node)

1 year
- **Python, Java**

6 months:
- **TypeScript**

TECHNOLOGIES & DEVELOPMENT TOOLS

- **Development Tools:** Bash, Git, GitHub, Heroku, Vercel, Netlify, GitHub Pages, Figma.
- **Frontend:** React, Webpack, HTML5, CSS3 (BEM, flex, grid, SASS), jQuery, Bootstrap, ChakraUI, MaterialUI.
- **Backend:** Node.js with Express.js
- **Databases:** SQL (MySQL, PostgreSQL), MongoDB (NOSQL)

COURSES & APPRENTICESHIP

- **Kent C. Dodds - Epic React:** Currently enrolled in this amazing React course. Includes hooks, React patterns, suspense, performance and testing.
- **Udemy Student:** MongoDB, Express, React, Node and real-time applications with React and Node using sockets.

Communities & Volunteering

SCHOOL COMMUNITIES

Web Development Club ESCOM IPN
Feb – 2020 – today

Students club where I'm learning frontend and backend development using Node and React. Now, I'm a teacher at this wonderful community.

VOLUNTEERING

Alimenta 2019 Oct - 2019

Participation in food collecting "Alimenta 2019". Organized by Mexican marines.

Web Development Club ESCOM IPN
Aug – 2021 - today
Co-organizer. **Teacher** of the Modern JavaScript course at this amazing community