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EDUCATION

- **Faculty of Higher Studies Acatlán UNAM (Graduating in January 2023)** CGPA: 9.02 out of 10
  Bachelor's degree in Applied Mathematics and Computer Sciences

EXPERIENCE

- **VERTEBRAR** **(medical startup) (June 2021 - September 2021)**
  Worked as a Machine learning intern, developing a model to detect prostate cancer.

  - Improved accuracy of the model by **5%** changing the architecture of the model to a **densenet**.
  - Implement data generator, image processing pipeline and other scripts in **Python** using **TensorFlow** framework.

- **Front End for payment platform**
  Worked fully on the development of the UI and UX for the app

  - Decrease bundle size about **30%** using Material ui and **dynamic imports**, this makes the page load faster.
  - Designed using **Next.js** and **scss**.
  - All components were coded using **typescript**.

SOFTWARE PROJECTS

- **Code Reference: A Webpage to Share Algorithms** ↗ **(June 2021 - current)**
  Developed a webpage using **Nexts.js** that allows users to share and create his own algorithms implementations.
  - Implemented a github **OAUTH** application to improve user validation and registration.
  - **SSR** frontend in **Next.js**, this allows easy scalability of the project.
  - Incorporated NO-SQL database(**MongoDB**) to handle with document storage and easily manipulation of data, also it allows an easy way to implement a pool for the connection.
  - Designed **RESTful** back end server in **Next.js** api framework, keeping the project simple and fast.
  - The page was deployed to **Heroku**.
- **Criptoalgo: Implementation and visualization of encryption algorithms** ↗ **(August 2021 - current)**
  A PWA implemented in **Next.js**.

  - Implementation of encryption algorithms like Caesar and Vigenere cipher.
  - The Visualization of the algorithms were designed in **CSS** and **Typescript**.
  - Implement service workers to make this page a PWA.
  - Designed using Material UI.
  - Deployed in Heroku, currently used by my class to solve as learning material.
- **Telegram bot in golang** ↗ **(Oct 2020-November 2020)**
  A bot written in **golang**, using the telegram API, that tells you if a movie is available in Netflix.

  - The database was collected using web-scrapping bots in **Python**, and the data was stored using Postgres.
  - Implemented user interactive bot in **golang** that support filtering commands.
  - Use of **ngrok** to expose my local server.

SKILLS

- **Languages**
  - Proficient: C++, Golang, Rust, Python, C, Julia.
  - Familiar: Java, Bash, Javascript, Typescript.
- **Web development**
  - Django, Rocket.rs, Express, React.js, Next.js, css, HTMl,MongoDB, Postgres.

AWARDS & LEADERSHIPS

- **ACM-ICPC Grand Prize of Mexico 2020,27th place out of 400 teams (Top 6%)**↗**.**
- **Algorithm Club (GUAPA)** **(December 2020 - current)**
  - President of algorithmic club in my university.
  - Mentored students to participate in events like Google Code Jam ,Facebook Hacker Cup, etc.
  - More than 20 people involved in current courses.