Daniel
HERNANDEZ JIMENEZ

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EDUCATION

Advanced Technologies School - National Polytechnic Institute of Mexico (UPIITA - IPN)   Graduating in December 2023

Bachelor of Science in Mechatronics Engineering   GPA: 9.45/10
- Courses on computer arquitecture, software engineering, robotics, electronics, mechanical design, computer vision, real time operating systems, machine learning, control theory, automation

WORK EXPERIENCE

Aerospace Development Center (CDA - IPN)   October 2021 - April 2022

Frontend Developer   Mexico city, remote
- Designed and developed new screens for the CDA web app unsing Django, to improve project management for researchers, students and administrative workers
- Designed and documented new API REST endpoints with Swagger, for frontend and backend guidance in development
- Automated frontend development setup using Docker, increasing time and tasks efficiency for the team

MAJOR PROJECTS

Lecture notes   March 2019 - Present
- Published +270 notes of engineering courses taught at UPIITA IPN in Mexico City
- Implemented a note-taking workflow from the command line, to use during lectures
- Designed and developed the website using Jekyll
- Implemented a dinamically highlighted TOC and a highlighting client search using Lunr.js

Visionary Element App freelance mobile developer   February 2021 - August 2021
- Designed and developed an app for a network marketing business using React Native and Firebase

Low-cost pyrometer   November 2019 - December 2019
- Used a low-cost color sensor to measure light emmited by a heated body along with the corresponding temperature to generate a radiation-temperature profile and use it in a device that measures temperature from distance
- Developed a command line tool written in Java to get data sent through a serial port and record it in an excel file, the tool was used to get the radiation-temperature profile

LEADERSHIP & ACTIVITIES

CETIEM SC volunteering associate   April 2020 - January 2021
- Blogging, event staff, hackaton planning and execution

SKILLS

Programming languages
- 2 years   Matlab
- 1 year   Javascript, Python
- 6 months   Java, C, C++

Technologies
HTML, CSS, Sass, Jekyll, Vim, LaTeX, Linux, Mathematica, React, React Native, Docker, SQL, SQLite, Django, Bash

Languages
- B2   English
- C1   French
- Native   Spanish