

## WORK EXPERIENCE

### 2023 | FREELANCER

- Currently working on a booking app for a client using React, Node js, Express, RxJS, Typescript and Sass.

### 2022 - 2023 | INSTITUTO TECNOLÓGICO KSQUARE

JavaScript Associate Software Engineer

#### Food Delivery App

- Work with Agile methodologies, GIT and Microservices-based architecture to develop the role-based "Point of Sales" app.
- Use React and MUI for building a responsive SPA with reusable and scalable components that consumed our own API.
- Use Node js and Express js for building a restful API, and socket.io to manage the full-duplex connection between clients and the server.
- Use PostgreSQL as database and sequelize as ORM to store and manage the whole information.
- Create authentication and authorization middlewares using Firebase Auth through tokens.
- Create routing using react-router-dom and authentication using the context hook and tokens.
- Implement WebSocket for User-POS immediate interaction (new orders).
- Implement clean architecture and best practices for clean, reusable and scalable coding.

#### Health Management System

- A role-based app developed under Agile methodologies and GIT.
- Use React, MUI and Sass for building a responsive SPA with reusable and scalable components that consumed my own API.
- Use Node js and Express js for building a restful API.
- Use PostgreSQL as database and sequelize as ORM to store and manage the whole information.
- Create authentication and authorization middlewares using Firebase Auth through tokens.
- Create routing using react-router-dom and authentication using the context hook and tokens.
- Implement clean architecture and best practices for clean, reusable and scalable coding.

### 2020 - 2022 | UCHIYAMA MANUFACTURING DE YUCATÁN

Production Engineer

- Head of the material processing area. I performed as a leader of engineers and operators to achieve the high-quality expectations of the company in that area.

## EDUCATION

### 2016 - 2020 | COMPUTATIONAL ROBOTICS ENGINEERING

Graduated - Universidad Politécnica de Yucatán

#### KUKA robot programming - Internship

- I was assigned to develop a robust system in which I used only tools of the robotics lab including a CNC laser machine, a resin-based 3D machine, and 2 KUKA robots KR 6 Agilus R900.
- Creation of an MDF-based product and the whole workstation which were designed with SolidWorks and Inventor and were cut by the CNC machine.
- Development of the gripper for the robot to manipulate the pieces.
- Programming of the robot using C++ and KRL to assemble and palletize the products simulating a production process.

#### Omni-directional robot

- This project was to develop an omnidirectional car that can simulate the new generation of wheels.
- The robot had AI by using deep learning and neural network, also Artificial vision using a webcam and digital image processing.
- Developed using PSoC, Raspberry Pi, Robot Operating System (ROS), Python, and TensorFlow.

## SKILLS

JS • HTML • CSS • Typescript • React • RxJS • MUI • Node.js • Express • PostgreSQL • Scrum • GIT • Sass • Sequelize • Jest • Responsive web design • Mobile-first design • Unit testing

## CERTIFICATIONS

### 2022 - 2023 | JAVASCRIPT JUNIOR DEVELOPER

Certified - Instituto Tecnológico Ksquare

### 2023 | SALESFORCE CERTIFIED JAVASCRIPT DEVELOPER I

Certified - Salesforce

### 2022 | THE WEB DEVELOPER BOOTCAMP 2022 BY COLT STEELE

Certified - UDEMY

## LANGUAGES

- Spanish (Native)
- English (Professional)