

Juan Jesús Alemán Espriella

Full Stack Developer Jr.

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Mexico City, Mexico

Biomedical engineer with experience in software development and medical platforms, I am looking to work in web development in the Front End part with technologies such as React.js or Vue.js, and in the Back End with Node.js, MongoDB and SQL databases. In addition to having knowledge for the implementation of IoT projects in data acquisition and dashboard deployment.

Projects

E-Monitor and Medical Assistant

HTML, CSS, JavaScript, C, Java, Node.js, IoT Platforms

REMOTE PATIENT MONITORING

Github

- Web platform for real-time patient monitoring.
- Implementation of ESP32 sensors with communication to the Internet and Databases.
- Development of Android application for real-time mobile monitoring.
- Medical diagnostic web platform using Infermedica API.
- Development of virtual assistant (Alexa type) called Emma for the management and deployment of data.
- Connection with smart bracelets for BPM and Oxygenation monitoring.
- alemango.github.io/Dashboard-Emma/pacientes.html

Portfolio

React.js, Node.js, JavaScript

PERSONAL WEBSITE

Github

- Personal page development using React.js
- Static website with loading animations and interactive background.
- Deployed with GitHub Pages.

Work Experience

National Institute of Cardiology

Presential

BIOMEDICAL ENGINEER

October 2020 - November 2021

- Development and updating of medical software, using Python and GUI.
- Acquisition and analysis of biomedical signals using sensors, MatLab, C, and Python.
- Implementation of internal networks and data deployment, using NodeJS and Mongo DB.

National Electoral Institute

Presential

DATABASE DEVELOPMENT ASSISTANT

January 2020 - December 2020

- Update database documentation, SQL and MySQL.
- Perform bulk uploads and specialized queries.

Technical Skills

Strongest Areas	Web Development, Medical Software Development, IoT Development
Programming Languages	C, Javascript, Python, Java
Libraries / Frameworks	React.js, Git, HTML5, CSS3, NodeJS
Database	MongoDB, PostgreSQL
Cloud Service	Azure

Education

Internet Of Things Certification

Samsung Innovation Campus | Código IoT

Online

April 2022.

Microsoft Azure Fundamentals AZ 900

Innovación México | Microsoft Azure

Online

December 2021.

Front End React Js Developer

CODERHOUSE

Online

August 2021.

Full Stack Developer

Launch X | Innovación México

Online

June 2021.

Metropolitan Autonomous University

BIOMEDICAL ENGINEERING

Mexico City, Mexico

September 2017 - Act.