



# Manuel Fernando

Full-Stack Web Developer



## Contact

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## Education

- CareerFoundry GmbH  
**Full-stack Web Development**  
Aug 2023 - Aug 2024
- Rhein-Waal Hochschule  
**B.Sc. Mechatronics Systems Eng.**  
Sep 2020 - May 2023  
Incomplete
- Universidad de Sonora  
**B.Sc. Mechatronics Engineering**  
Aug 2011 - May 2017
- CBTIS 11  
**Mechatronics Technician Degree**  
Aug 2008 - Jul 2011



## Languages

- Spanish C2
- English C2
- German B2
- Greek A2

## Profile

Full-stack Web Developer with more than a decade of Mechatronics experience, skilled in building responsive applications using modern web technologies and various front-end and back-end frameworks. Combines technical precision and innovative problem-solving to optimize performance and enhance user experiences. In addition, I am passionate about 3D printing and design, enjoys reading, and plays guitar.

## Soft Skills

Proactive and quick to learn, I excel in strong communication and teamwork. My adaptability and self-management skills ensure efficient handling of tasks, while my problem-solving and critical thinking abilities help tackle challenges effectively.

## Experience

### Fullstack Web Developer

#### J&G Agency GmbH

02/2024 - 05/2024

- Developed frontends with Angular and VueJS, boosting user engagement.
- Built robust backends with Node.js, improving application performance.
- Contributed to planning and developing new applications, raising user satisfaction.

### Systems Integration Technician

#### AMETEK, Inc. - Spectro Analytical Instruments GmbH

03/2022 - 06/2023

- Assembled high-tech elemental analyzers, integrating electronics, mechanics, and software, and improved assembly efficiency by 30%.
- Created detailed documentation for global markets.
- Led the department in assembly speed, reducing project delays by 30% and increasing throughput.

### Materials Testing Technician

#### WTBrinkmann GmbH

11/2021 - Present

- Conducted non-destructive testing (VT, RT, MT, HT, UT, PT) on welded structures, identifying defects and increasing early defect detection.
- Evaluated and reported on structural integrity, enhancing safety compliance.
- Proactively took on additional tasks, maintaining high inspection standards and reducing errors by 20%.



## Projects

### • Event Discovery Platform

Meet App: Meet is a Progressive Web App for event discovery and management, integrating with the Google Calendar API. Built with React and following TDD/BDD practices, it offers city-based event filtering, offline functionality, and data visualization.

### • Film Catalog Viewer

Marvel-Flix: This project is a front-end application built to interact with my movie database API. It allows users to browse movies, view details such as descriptions and manage their own favorite movie lists and profiles.

### • RESTful API

Marvel-Flix API: This project is an API that serves as a backend for managing movie data. It includes endpoints for fetching movie details, searching for movies, and user authentication for managing favorites or ratings.

### • Pokémon Encyclopedia

The Pokedex App is a web application that functions as a digital encyclopedia for Pokémon. It enables users to search and browse through different Pokémon species, view their characteristics, abilities, stats and save favorites.

- For more projects, please visit my website: [manuel-fernando.com](https://manuel-fernando.com) or contact me for additional details.



## Skills

### Development Technologies:

- HTML, CSS, JavaScript, Python
- React, Angular, Vue, Django
- Bootstrap, Vuetify, Angular Mat
- Node, Express
- SQL/NoSQL (PostgreSQL, MongoDB)
- React Native Development

### Tools & Methodologies:

- Git
- Docker, Firebase
- AWS Lambda
- CI/CD
- TDD, BDD & OOP
- Scrum, Kanban
- Figma
- Heroku, Netlify

## Experience

### ○ Kfz-Mechatroniker

#### LDJ KFZ Service BMW MINI

08/2021 - 01/2022

- Diagnosed and repaired electrical and mechanical systems in vehicles, achieving a reduction in repair turnaround time.

### ○ Production Technician

#### Aluxe Aluminum Solutions GmbH

08/2020 - 09/2021

- Manufactured precision aluminum components for design windows, slide doors, and terraces, increasing production efficiency by 25%.
- Operated CNC machines, leading to a 15% improvement in production times and maintaining high-quality standards.

### ○ Program Manager Assistant

#### Universidad de Sonora

09/2014 - 12/2018

- Assisted in organizing academic programs, resulting in an increase in student and faculty engagement.
- Collaborated with IT to streamline internal processes, improving response time to student requests.

### ○ Electronics Technician

#### Ford Motor Company - Assembly Plant

09/2012 - 12/2014

- Analyzed and repaired automotive electronic systems, programmed modules and keys, and repaired wiring and connectors, cutting assembly line downtime by 10%.
- Trained production line workers, leading to a 10% increase in overall assembly efficiency.

### References Available Upon Request

If you would like more information about my previous roles, please let me know, and I'll be happy to provide further details.