

# German Torres Sierra

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## Experience

### Delfin Program

### Universidad Autónoma de Tamaulipas

Programmer

June 2023–August 2023

- Research about methods and use of artificial intelligence to recognise the maturity of fruits.
- Use of methods and algorithms to classify and identify papayas.
- Train and Validation of the usage of a Convolutional Neural Network.

## Projects

### Restaurant Website (React, Django)

- Developed the website according to specific requirements, successfully meeting all criteria.
- Followed Scrum methodology to ensure timely project completion.
- Implemented administrative tools for dynamic data management, enabling client to modify various components of the website.
- Designed a responsive and aesthetically pleasing user interface.

### Product Management Web App (JavaScript, HTML, CSS)

- Implemented full product management capabilities, including showing, creating, and deleting products from a server.
- Integrated data validation techniques to ensure secure data handling.
- Built the web app based on an existing design, achieving high fidelity to the original, and made it responsive by adjusting its behavior and appearance, using animations to enhance the user experience on mobile devices.
- Utilized external libraries to add features such as custom user messages.

### Streaming Application Replica (Java)

- Followed Object-Oriented Programming (OOP) principles to develop a backend structure capable of handling basic features of a streaming application.
- Used .dat files to manage and save data locally.
- Implemented user authentication and session management to secure access for normal users and administrators.

### Computer Vision Project (Python, OpenCV)

- Employed libraries and algorithms to develop a Convolutional Neural Network (CNN).
- Created a dataset using image segmentation for training and validating the CNN
- Integrated an image data generator to perform image transformations.

## Skills

**Programming Languages:** Python, JavaScript (DOM, Local Storage, Fetch API), SQL (Stored Procedures, Triggers), Java.

**Developer Tools:** Visual Studio Code, Chrome DevTools, Git, GitHub.

**Technologies/Frameworks:** Django, React.

**Soft Skills:** Communication, Teamwork, Responsibility.

## Education

### Instituto Tecnológico de Morelia

### Morelia, Michoacán

Computer Systems Engineer

August 2021

**Coursework:** Data Structures, Discrete Math, Operative Systems, Linear Algebra, POO, Database Administration, Numerical Methods, Software Engineering.

### One Oracle Next Education Bootcamp

### Virtual

Front-end Web Developer

January 2024–July 2024

**Coursework:** JavaScript, CSS, HTML, React.