









## Sonia Hiltner

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## Education

- Degree in Economics from the University of Santiago de Compostela in 1997.
- Master in European Studies in UCLouvain(Belgium) in 1998
- IT Suport Specialist at Coursera-2021

### FREECODECAMP CURRICULUM:

- Responsive Web Design
- JavaScript Algorithms and Data Structures
- Front End Developments Libraries
- Data Visualization
- Relational Database
- Back End Development and APIs
- Quality Assurance
- Scientific Computing with Python
- Data Analysis with Python
- Information Security

## Work Experience

- Market Research Consultant-London (2001-2006)
- Gardener(2006-2010)
- Social Assistant (2010-2020)

## Skills



## My Personal Projects

### My Personal Library Application

Application for a personal library.  
Fullstack application made with Nodejs, Mongoose and Express.

### Photo album Application

This is a photo album application where you can upload your images, organize them into albums and save them in the cloud.  
Fullstack application made with React, Nodejs, Mongoose and Express.

### Sequence Memory Game

Memory game that consists of repeating a sequence of numbers, with different levels of difficulty.  
Project made with React and Bootstrap

### Books Shop Application

E-commerce application for a bookstore  
Project made with React, Nodejs, Mongoose and Express.

### Quick Notes Application

Notes and Todos Application with authentication.  
Application made with React, Node.js, Mongoose, Express, and JsonWebToken for authentication.

### Food Planner Application

Application with multiple cooking recipes that allows you to plan menus and make a shopping list of the necessary ingredients with the possibility of adding your own ingredients.  
Application developed with React js and consuming the TheMealDB API.

## My FreeCodeCamp Projects

### Responsive Web Design Certificate

As part of this certification, I built the following projects:  
A **Survey Form**, a **Tribute Page**, a **Technical Documentation Page**, a **Product Landing Page** and a **Personal Portfolio Page** while learning HTML and CSS and how to make responsive webpages.

### JavaScript Algorithms and Data Structures

As part of this certification, I built the following projects:  
A **Palindrome Checker**, a **Roman Numeral Converter**, a **Caesars Cipher**, a **Telephone Number Validator** and a **Cash Register** while learning Javascript.

### Front End Development Libraries

As part of this certification, I built the following projects:  
A **Random Quote Machine**, a **Markdown Preview**, a **Drum Machine**, a **JavaScript Calculator** and a **25 + 5 Clock** while learning **Bootstrap**, to design responsive web pages and applications, **Sass**, to extend the features of CSS and **React** and **Redux**, to create powerful Single Page Applications .

### Data Visualization

As part of this certification, I built the following projects:  
A **Bar Chart**, a **Scatterplot Graph**, a **Choropleth Map**, a **Heat Map** and a **Treemap Diagram** while learning **D3.js**, to create dynamic and interactive data visualizations in the browser.

### Relational Database

As part of this certification, I built the following projects:  
A **Celestial Bodies Database**, a **World Cup Database**, a **Salon Appointment Scheduler**, a **Periodic Table Database** and a **Number Guessing Game** while learning how to create and use a relational database with PostgreSQL, a database management system, and SQL, the language of these databases.

### Back End Development and APIs

As part of this certification, I built the following projects:  
A **Timestamp Microservice**, a **Request Header Parser Microservice**, a **URL Shortener Microservice**, a **Exercise Tracker** and a **File Metadata Microservice** while learning how to write back end applications with Node.js and npm, and how to build web applications with the Express Framework, MongoDB and the Mongoose Library.

### Quality Assurance

As part of this certification, I built the following projects:  
A **Metric-Imperial Converter**, a **Issue Tracker**, a **Personal Library**, a **Sudoku Solver** and a **American British Translator** while learning how to write tests with **Chai**, advanced **Node** and **Express** concepts, how to use template engines as **Pug**, **Passport** for authentication, and **Socket.io** for real-time communication between the server and connected clients.

### Scientific Computing with Python

As part of this certification, I built the following projects:  
A **Arithmetic Formatter**, a **Time Calculator**, a **Budget App**, a **Polygon Area Calculator** and a **Probability Calculator** while learning Python.

### Data Analysis with Python

As part of this certification, I built the following projects:  
A **Mean-Variance-Standard Deviation Calculator**, a **Demographic Data Analyzer**, a **Medical Data Visualizer**, a **Page View Time Series Visualizer** and a **Sea Level Predictor** while learning Data Analysis with Python.

### Information Security

As part of this certification, I built the following projects:  
A **Stock Price Checker**, a **Anonymous Message Board**, a **Port Scanner**, a **SHA-1 Password Cracker** and a **Secure Real Time Multiplayer Game** while learning the fundamentals of protecting people's information online.