

Sandra Martinez Dominguez

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Personal Bio

I am a Master's graduate in Information Technology with a specialisation in Business Intelligence and have completed additional professional training as a full-stack software engineer. Recognising a critical need in the industry for professionals who can bridge the gap between business challenges and technological solutions, I transitioned into a tech career. With proven industry expertise and newfound coding skills, I excel in developing data-driven strategies and innovative software solutions for complex industry challenges.

Key Technical Skills

- **Coding and computer programming** – Proficient in Java, JavaScript and React as well as Spring Framework, IntelliJ, VSCode, Git and GitHub technologies demonstrated in full-stack projects developed as part of a 13-week full-stack software engineering bootcamp at Bright Network Technology Academy.
- **Data Analysis** – Proficient in R, R Studio, SQL, PowerBI, Tableau (Tableau Creator & Tableau Cloud), and Microsoft Office demonstrated in the data visualisation and analysis coursework at university.
- **Agile Software Development** – Collaborated in multidisciplinary teams in an agile environment as result of my participation in the 13-week full-stack software engineering bootcamp and the software project engineering module at university.
- **Software Testing and Debugging** – Implemented unit testing within the JUnit Jupiter testing framework, with a strong emphasis on Test Driven Development (TDD) methodology while developing a calculator application.

Education

MSc Information Technology with Business Intelligence | *Robert Gordon University* **09/21 – 09/22**
Aberdeen, Scotland.

Relevant Coursework/Modules:

- **Software Project Engineering (A)** – Utilised scrum framework, emphasising communication, project planning, requirement analysis and agile methodology within team dynamics
- **Intranet Systems Development (B)** – Developed proficiency in HTML, CSS and MySQL building a dynamic web application, encompassing client/server technologies.
- **Data Visualisation and Analysis (B)** – Employed R and R Studio to master visualisation techniques, analyse data, and conduct significance tests, focusing on information comprehension.

BSc Chemical Engineering | *National Autonomous University of Mexico UNAM* **08/09 – 02/14**
Mexico City, Mexico.

Relevant Coursework/Modules:

- **Project Engineering (100%)** – Employed Microsoft Suite, including Project, to manage tasks, analyse workloads, and oversee budgets in a simulated case scenario.
- **Process Design (90%)** – Utilised Aspen Hysys to simulate chemical processes and conduct in-depth analysis of study cases, showcasing practical application of engineering concepts.

Professional Training

Full-Stack Group Project | **Bright Network Technology Academy** **09/2023**

- Used **Java** and **JavaScript** to create a **React** application linked to a **Spring** backend to optimise delivery vehicle fleets based on a business scenario.
- Developed a responsive warehouse management system for prioritising and packing incoming orders efficiently, with automated order sizing and truck assignment logic.
- Employed Scrum methodology with day-long sprints, frequent stand-ups, mob and pair programming, and a Kanban board for effective time and tasks management.

Front-End Group Project | Bright Network Technology Academy

09/2023

- Used **JavaScript**, **React**, **HTML** and **CSS** to build a front-end application interacting with a virtual pet RESTful API. Employed Visual Studio Code, IntelliJ and React libraries (MaterialUI and ReactRouter).
- Ensured API functionality with Postman and database integration via Postico for comprehensive testing and endpoint validation
- Emphasised mob programming and collaboration tools like Zoom, Trello, Excalidraw, and Google Docs to efficiently track and address issues throughout the project.

Back-End Group Project | Bright Network Technology Academy

08/2023

- Used **Java** to develop a RESTful API for a restaurant recommendation platform, enabling user-specific restaurant suggestions based on location and cuisine preferences.
- Developed a **Spring** Boot project with IntelliJ IDEA to build the API along with Postman and Postico to test and visualise the API request points. Employed GitHub for code management and Trello's Kanban boards for efficient teamwork and task tracking.
- Implemented collaborative pair programming, adhering to Agile methodologies, with daily sprints and regular stand-up meetings for effective project management.

Other Experiences

Trading Assistant | Sainsbury's - Retailer

11/22 – Present

- Provided training for new team members, ensuring they were fully compliant with company policy and expected levels of service. Furthermore, I enhance customer experience by fostering meaningful engagement in our daily interactions, providing recommendations on new and existing products.

Quality Engineer Coordinator | KONE Mexico - Elevator and Escalator Engineering

12/17 – 09/18

- Created a business solution with a digital platform to fill quality reports, obtaining real-time statistical data, cutting admin work by 93% monthly. Also, I led a 9-member testing team, boosting elevator quality inspection coverage by 143% in 9 months, surpassing key performance indicators.

Employability Skills

- **Project Planning & Delivery** – Employed effective project planning, resource allocation, and continuous communication to implement a digital platform for quality management at KONE Mexico.
- **Problem-Solving** – Designed and built a warehouse management application by identifying the main operational and delivery issues of a fictional company.
- **Teamwork** – I consistently collaborated within diverse teams to achieve common goals. For instance, I recently participated at Hack For Change by Bright Network, developing a mental-health AI-powered application. Our team's efforts were recognized, and we were awarded a prize of £3,000.
- **Communication** – My ability to connect with people from diverse backgrounds became evident while working at both KONE and thyssenkrupp, transnational corporations. Furthermore, my networking skills have been showcased during the Women in Tech Global Conference 2023.
- **Leadership** – I took on leadership roles, including coordinating a team of testers at KONE Mexico. My participation in the Future Leaders Programme with the British Chamber of Commerce also highlights my leadership potential.
- **Languages** – Effective communication in both English (fluent) and Spanish (native).

Achievements, interests and Roles of Responsibility

- Full-Stack Software Engineering Bootcamp | Bright Network Technology Academy | UK 07/23 – 09/23
- Women in Tech Global Conference 2023 | WomenTech Network | Online 05/23
- Future Leaders Programme | The British Chamber of Commerce | Mexico – UK 10/21 – 05/22
- Women in STEM Scholarship | British Council | Scotland, UK 09/21 – 09/22
- Bootcamp in Innovation and Entrepreneurship | UNAM | Mexico 01/19
- Company Wide Quality & Productivity Management | JICA Scholarship | Japan 01/17 – 09/17