



# Marco Antonio Parra Fernández

Data Engineering / Web Developer



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Chillán, Chile



portfolio-mparraf.herokuapp.com



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## Perfil profesional

I am an engineer / full-stack developer with applied knowledge in operations management, planning production, and control process. Also, I have participated in technology transfer projects. I am passionate about information technology, especially in web development and data analysis. My motivation is to gain experience and continue to develop a career IT field, through the construction and maintenance of applications that provide solutions to industry problems. I believe in the importance of a work culture based on continuous learning, and toward teamwork oriented. I characterize myself as a methodical professional with a high level of resilience.

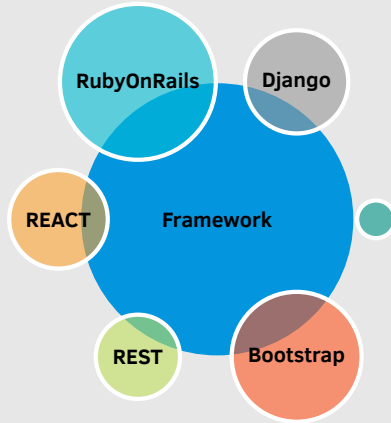
## Education

- 2017 **Master's degree in industrial engineering** University del Bío-Bío  
2022
- Operations research and optimization models. Thesis: A meta-heuristic to minimize total tardiness in a job shop scheduling problem (Programming language: Python).
- 2003 **Bootcamp: web development using Ruby on Rails** Le-Wagon  
2010
- Develop a business idea incorporating web technologies, considering Full Stack development up to deployment.
- 2024 **Bootcamp: Full-stack web development with Python** Eductecno  
current
- Develop a business idea incorporating web technologies, considering Full Stack development up to deployment.

## Professional Certificates

- Link **Python for Everybody Specialization** University Of Michigan
- Data structures (acquisition, cleaning, analysis, and visualization), databases, and web scraping.
- Link **Applied Data Science with Python Specialization** University Of Michigan
- Machine learning, text mining, data visualization, statistical analysis y Data Cleaning.
- Link **Google IT Automation with Python Professional Certificate** Google
- Python programming, version control system (GIT), troubleshooting, debugging, configuration management, and task automation.
- Link **PostgreSQL for Everybody Specialization** University Of Michigan
- Database architecture design and CRUD functions.
- Link **Learn SQL Basics for Data Science Specialization** UC Davis University Of California
- SQL in data science, including data wrangling, SQL analysis, AB testing.
- Link **Advanced Django: Mastering Django and Django Rest Framework Specialization** Codio
- Build a blog using Django REST Framework incorporating development criteria used in the industry.
- Link **Web Design for Everybody: Basics of Web Development Coding**, University Of Michigan
- Build applications incorporating web response design using HTML, CSS3, and JavaScript. Acquire fundamental knowledge of the logical structure of the Document Object Model (DOM).
- Link **Full-Stack Web Development with React Specialization** The Hong Kong University of Science and Technology
- Build a responsive e-commerce web page, using REACT framework and NodeJS on the server side, and NoSQL MongoDB database..
- Link **Open Source Software Development, Linux and Git Specialization** Linux Foundation
- Linux Environment and Git version control system.

# Programming Skills



• Python



• Linux • Git • SQL • Microsoft Excel



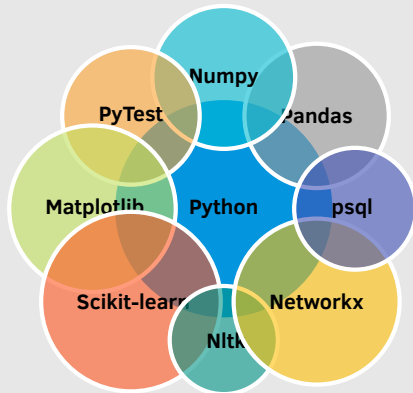
• HTML • CSS • React • NodeJS



• Javascript • Ruby On Rails



# Python Libraries



## Languages

Español ( Native Language)



English (B2 - Professional)



“Certificate of Proficiency with LEVEL 8 in platform Open English: ”for demonstrating proficiencies that align to Level B2 as described by the Common European Framework for Reference (CEFR) for languages as of this 28th day of August, 2021.”

## Work Experience

2020 **Freelance**

self-employed

current

- Data engineer and web development .

2020 **Freelance instructor, Microsoft Excel**

Mundo Diferente, Consultoría y formación

2021

- Design and give a lecture on training programs in Excel Software.

2017 **Research / Project Engineer**

Instituto forestal - University of Concepción

2019

- Technology transfer project in operational management and process optimization. Development of digital applications for acquiring, processing, and analyzing data.

2012 **Process engineer**

CMPC Maderas S.A

2016

- Manage the operational efficiency of production processes and compliance with production plans. Monitor and control product quality compliance. Ensure the continuity of the production process. Develop and maintain key performance indicators in the production process. Organize and manage a work team of 50 members.

2011 **Planner production**

Arauco S.A

2012

- Optimize production plans by coordinating the workflow. Control current levels of production and stock of products. Monitor and control compliance with the quality of the products. Ensure the continuity of the production process. Develop and maintain key performance indicators in the production process. Organize and manage a work team of 30 members.