Marco Antonio Parra Fernández

MSc. Industrial Engineering / Full-Stack Web Developer

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Chillán, Chile

Link to Portfolio-Page
Link to LinkedIn
Link to GitHub

Professional Profile

Industrial Engineer with over five years of experience in software development and project management. Known for creating innovative solutions in web development and data science, leading teams in the manufacturing industry, and directing technology transfer projects. My focus is on continuous improvement, with applied knowledge in the field of operations management, planning, and production control. My motivation is to develop a career in the IT industry through building and maintaining applications that provide solutions to industry problems. I am a highly motivated professional with exceptional programming skills, a deep understanding of technological trends, and valuable experience contributing to challenging and varied projects.

Keywords

Full Stack Web Development / Python / Data Analysis / Machine Learning / SQL / HTML / CSS / JavaScript / Data-driven Decision Making

Education

- **Master of Science in Industrial Engineering**
  University of Bío-Bío, 2017-2022. Operations research & optimization models.

Specializations/Certifications

My competencies range from data acquisition and cleaning, analysis and visualization, to database management. In programming, I have solid knowledge in Python, troubleshooting, debugging, Configuration Management, and task automation. I have experience in database architecture, CRUD operations, and SQL queries applied to data science. My skills extend to web development with HTML, CSS3, and JavaScript. Additionally, I have experience in Linux environments and GIT.

- **Bootcamp: Desarrollo Full Stack Python Trainee**
  Eductecno/Talento Digital, Nov 2023. *Link to Credential*
- **Bootcamp: Desarrollo Ruby On Rails para emprendimientos de tipo Start-Up**
  Le-Wagon/Talento Digital, Sep 2021. *Link to Credential*

- **Análisis de Datos de Google**
  Google, Dec 2023. *Link to credential*
- **Full-Stack Web Development with React Specialization**
  The Hong Kong University of Science and Technology, Oct. 2022. *Link to Credential*
- **PostgreSQL for Everybody Specialization**
  University Of Michigan, Ago 2022 *Link to Credential*
- **Web Design for Everybody: Basics of Web Development Coding**
  University Of Michigan, Ago 2022. *Link to Credential*
- **Advanced Django: Mastering Django and Django Rest Framework Specialization**
  Codio, Jul 2022. *Link to Credential*
- **Open Source Software Development, Linux and Git Specialization**
  The Linux Fundation, May 2022. *Link to Credential*
- **Applied Data Science with Python Specialization**
  University Of Michigan, Mar 2022 *Link to Credential*
- **Google IT Automation with Python Professional Certificate**
  Google, Mar 2022 *Link to Credential*
- **Python for Everybody Specialization**
  University Of Michigan, Ago 2020. *Link to Credential*
- **Learn SQL Basics for Data Science Specialization**
  UC Davis University Of California, Abr 2022. *Link to Credential*

Skills

Programming Languages: Python, JavaScript, Ruby
Web Development: Full Stack Web Development, Django, HTML, CSS, React, NodeJS, RoR, REST Framework, Responsive Web Design, Bootstrap
Data Science: Data Analysis, Machine Learning, Text Mining, Data Visualization, Statistical Analysis, Data Cleaning
Data Science and Analysis external libraries: Numpy, Pandas, Scikit-learn, Networkx, NLTK **Visualization:** Matplotlib
Database: PostgreSQL, MySQ, NoSQL, MongoDB
Version Control: Git **Operating Systems:** Linux
Other Skills: Microsoft Excel, Project Management, Troubleshooting, Debugging, Configuration Management

Work Experience

- **Data Science and Web Development Freelancer:** Self-employed   *Aug 2022 - Present*
  As a freelance professional specialized in Data Science and Full Stack Web Development, I have undertaken various projects combining data analytics knowledge with the creation and maintenance of web applications. My responsibilities include:
  - Using advanced data science techniques to extract relevant information from a data set.
  - Designing and implementing interactive and visually appealing web applications that meet user specifications.
  - Continuing learning and staying updated on the latest trends in both data science and web development.

- **Freelance Trainer, Microsoft Excel:** Mundo Diferente, Consultancy and Training   *2020 - 2020*
  As a freelance trainer specialized in Microsoft Excel, I collaborate with Mundo Diferente, Consultancy and Training to deliver high-quality training programs.

- **Project Engineer:** Forest Institute - University of Concepción   *2011 - 2012*
  - Development and implementation of technology transfer programs in SMEs, focusing on operational management and process optimization.
  - Development of digital applications for data acquisition, processing, and analysis using information technology.

- **Process Engineer:** CMPC Maderas S.A   *2012 - 2016*
  - Led the optimization of operational efficiency in production processes, ensuring compliance with production plans.
  - Supervised and rigorously controlled product quality, ensuring continuity of the production process.
  - Developed and managed key performance indicators to evaluate and improve efficiency in the production process.
  - Led a team of 50 members, fostering a collaborative environment and ensuring effectiveness in production.

- **Production Planner:** Arauco S.A   *2017 - 2019*
  - Optimized production plans, efficiently coordinating workflow to maximize operational efficiency.
  - Controlled current production levels and managed product stock to ensure a smooth supply chain.
  - Developed and managed key performance indicators to evaluate and improve efficiency in the production process.
  - Led a team of 30 members, promoting a collaborative environment and ensuring effective execution of production plans.

Languages

- **Spanish:** Native Language

- **English:** Level 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."