

Alejandro García

CIVIL ENGINEER

CONTACT DETAILS

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STUDIES

CENTRO DE ESTUDIOS DE INNOVACIÓN (C.E.I)

MASTER IN BIG DATA & BUSINESS ANALYTICS

March 2024 - June 2024

UNIVERSIDAD POLITÉCNICA DE VALENCIA

MASTER'S DEGREE IN CIVIL ENGINEERING

Sept 2021 - Sept 2023

Erasmus programme: Bologna, Italy.

Average grade: 8.3

UNIVERSIDAD POLITÉCNICA DE VALENCIA

DEGREE IN CIVIL ENGINEERING

Sept 2017 - June 2021

Average grade: 8

Complementary training:

- Advanced Excel : data import and analysis.
- Data science with Python.
- Git: from zero to expert.
- Design and management of relational databases with MySQL.
- Advanced PowerBI - Data analysis and visualisation.

SKILLS

TECHNICAL SKILLS

Proficient with:

Python · SQL · Power BI · Excel · MS Office · MS Project
Onshape(CAD) · AutoCAD · SAP2000

Familiar with:

Git · Spark · Kafka · Docker · HTML5 · Presto · NoSQL

LANGUAGES

- **Spanish and valencian:** native languages.
- **English:** proficient in oral and written.
- **Italian:** conversational at oral level and basic at written level.

WORK EXPERIENCE

PhD student

UNIVERSIDAD POLITÉCNICA DE VALENCIA | Dec 2023 - To date

- Statistical analysis of seismic events and study of their correlation with structural damage. Preventive maintenance through indicators.
- EDA (Exploratory Data Analysis) and ETL with Python using libraries such as NumPy and/or Pandas. JupyterNotebooks (Anaconda) as IDE.
- Experience in the use of GoogleColaboratory.
- Data visualisation with Matplotlib, Seaborn and Plotly.
- Interactive reporting with PowerBI.
- Design of finite element models with SAP2000.
- Design of equipment with OnShape (CAD software).

Research Technician

UNIVERSIDAD POLITÉCNICA DE VALENCIA | April 2023 - Sept 2023

- Analysis of the use of artificial reefs for coastal protection.
- Data analysis and visualisation with Excel. Use of PowerQuery and data modelling with PowerPivot. Experience with DAX language.
- AutoCAD, OnShape and SketchUp (CAD) for elements design.
- SAP2000 for structural analysis and numerical modelling.

Project supervision and site management

INTERCONTROL LEVANTE S.A | June 2022 - Sept 2022

- Site management/technical assistance.
- Project management, time planning and resource allocation (ERP) with Microsoft Project.
- Economic project management with Presto.
- Management of plans and documentation with AutoCAD.

Assistant site manager

PAVASAL EMPRESA CONSTRUCTORA S.A | March 2021 - June 2021

- Contact with suppliers and preparation of economic offers.
- Comparative analysis of materials and prices.
- Identification, data collection and analysis of the state of pavements and asphalts. Photogrammetric analysis of the condition of roads.
- Review of plans and project documentation.

ABOUT ME

FUTURE OBJECTIVES

- Research and learn about the design of ANNs with Python (TensorFlow, Keras, Sklearn).
- Obtaining MS Azure certifications. Azure Fundamentals, Azure AI Fundamentals and Azure Data Fundamentals.

INTERESTS IN

Ports logistics · Data science · Investment · Maritime works

HOBBIES

PC hardware · 3D Printing · Cinema · Basketball