Jaime Gonzalez Garcia-Bernardo

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SUMMARY

Imperial College London Engineer with experience in Strategy Consulting and extensive knowledge of Computer Programming and AI

EDUCATION

Imperial College London September 2014 – June 2018

- *Master of Engineering in Mechanical Engineering* - Graduated with Upper Second Class Honours
- Business-related modules: Economics for Business || Technology, Business, and the Market || Technical Presentation Skills || Statistics || Management for Engineers
- Member of the Imperial College Consultancy Society

English School of Asturias September 2010 – June 2014

- *A Levels* - Mathematics (A*), Physics (A*), Chemistry (A), Spanish (A*), Further Mathematics AS (A), Biology AS (A).
- Total of 660 UCAS points.
- *Spanish Baccalaureate* - Spanish Language and Literature (9), Spanish History and Contemporary History (9)
- *IGCSEs* - Mathematics (A*), Science (A*), Additional Science (A*), Geography (A*), French (A*), English Literature (A*), English Language (A), ICT (A*), Spanish language (A*)

Online Education February 2021 –

- *Projects* – Please visit my portfolio website for a full list and description of projects: jaimeggb.github.io/
- *Computer programming* – Obtained the following certifications from FreeCodeCamp (designed to take ~300 hrs each and require the completion of 5 projects on Replit each): Responsive Web Design (HTML & CSS) || Algorithms and Data Structures (JavaScript) || Front End Development Libraries (React.js, Redux.js, Bootstrap, jQuery, Sass) || Data Visualization (D3.js) || Back End Development and APIs (Node.js, Express.js, npm, MongoDB, Mongoose) || Quality Assurance (JavaScript, Chai, Node.js, Express.js, Pug, Passport, Socket.io) || Scientific computing (Python, SQLite, JSON, XML) || Data analysis (Python, SQL, Pandas, Numpy, Matplotlib, Seaborn, Jupyter) || Information security (Python & Helmet.js)
- *Artificial intelligence / machine learning* – Obtained the following certifications: Machine learning by Stanford || Deep learning specialisation by Deeplearning.AI || TensorFlow developer professional certificate by Deeplearning.AI || TensorFlow data & deployment specialisation by Deeplearning.AI || MLOps Specialization – Deploying Machine Learning Models in Production by Deeplearning.AI || Git & Github by Codecademy || Pandas by Codecademy || preparing for Google Cloud Professional Machine Learning Engineer certification by Google

WORK EXPERIENCE

Deeplearning.AI April 2022 – June 2022

- Worked as a Mentor at Deeplearning.AI, an education technology company in the AI sector
- Obtained job as a result of making "outstanding contributions to the Deeplearning.AI community"
- Responsibilities included:
    - Reporting technical and content issues and improvements on Gitissue
    - Supporting learners by answering queries on Discourse
    - Providing communication between Mentors/Staff

Analysys Mason September 2019 – September 2020

- Worked as an Associate Consultant at Analysys Mason, a global research and consulting firm in the Telecoms, Media and Technology (TMT) sector
- Projects included:
    - A commercial due diligence and business plan review of a local ultra-fast broadband operator in Spain to assess the opportunity for consolidation of small local broadband operators in the country.
        - The scope of the work included a review of the (ultra-fast) broadband market, both at the national and at the regional/local level; an assessment of the competitive landscape; and a commercial due diligence of the target company, including a review of its business plan
    - An engagement by a strategic advisory to conduct commercial due diligence of 1500 sites that were to be sold by Orange Spain as part of a competitive process.
        - A key aspect of our analysis was to review the market dynamics, including the impact of extensive active RAN-share deals.
        - Our review of the market translated in a ten-year forecast of the demand for mobile passive infrastructure in the market and the associated pricing that a towerco could charge for co-location.
        - Finally, our team used a database provided by the seller to conduct a desk-based assessment of the site portfolio, to understand its potential attractiveness

- An engagement by a strategic investor for the commercial due diligence of an MNO in Spain.
  - The analysis required a complete review of the market dynamics, both in the fixed and mobile segments.
  - The team also relied on a customer research which was conducted by a specialized partner.
  - Finally the team supported the client in the business plan assessment

Quick Release May 2019– September 2019

- Worked as a Project Analyst at Quick Release, a global product data management consultancy and automation firm in the automotive industry
- Projects included:
  - Processing and presenting data using Power BI for British multinational automobile manufacturer Jaguar Land Rover on client site
  - Developing a scope of work between Quick Release and multinational automotive seating manufacturer Adient on client site

RELEVANT SKILLS & TOOLS

Tools

- *Programming languages, frameworks & tools* – Python (TensorFlow, TensorFlow Extended, Keras, Pandas, Numpy, Matplotlib, Seaborn, SciKit-Learn, BeautifulSoup) **||** MATLAB and Octave **||** Javascript (Node.js, Express.js, jQuery, React.js, D3.js, Bootstrap) **||** HTML and CSS **||** SQL **||** LaTeX || Shell (Bash) for Debian Linux || Powershell for Windows || MongoDB & Mongoose (NoSQL database) || Kubernetes || Docker
- *Computer programmes and cloud platforms* – Google Cloud Platform **||** Solidworks || Excel **||** Word **||** Powerpoint

Skills

- *Multilingual* – English - Fluent (C2 Proficiency aged 17, grade A, highest possible) **||** Spanish - Fluent (mother tongue) **||** French - Basic (GCSE A*, A2 equivalent)
- *Adaptive* – Lived in four very different countries – England (London), Spain (Oviedo & Madrid), UAE (Dubai) and USA (Los Angeles)
- *Good communicator* – Have always been gifted at teaching concepts to others, mainly because I enjoy learning, structuring information rigorously and explaining things
- *Good desk researcher* – Consulting background has made me a top-grade information finder with google advanced search and duckduckgo search tools
- *Good teammate* – Have played team sports (rugby and football) all my life and have learnt to help teams thrive by maintaining winning habits, nurturing positive environments and exercising effective conflict resolution

NOTABLE DEGREE PROJECTS

Final Year Individual Project September 2017 – June 2018

- Project title: "Nitrogen-displaced Combustion in Diesel Engines"
- Worked with the Imperial College Mechanical Engineering Department together with Shell™ to investigate the potential use of nitrogen-oxygen membranes to reduce NOx and soot production in diesel engines
- Researched why the engine in one of the research team's experiments was hard to fire at high oxygen concentration and estimated how much nitrogen was being circulated in the experiment
- Developed a program using MATLAB to model and simulate the experiment
- Result:
  - Made two key observations that impacted the research team's direction
  - Work awarded A grade and submitted to be published by the International Journal of Engine Research

Future Clean Transport Technology Group Projects September 2017 – June 2018

- Project titles were: "Improving Engine Efficiency", "Turbocharger Matching" and "Modelling of Lithium Ion Batteries"
- Worked in a team of three and was elected project manager for the final two projects
- Set deadlines, motivated team members to meet those deadlines giving their best and synergised team with others
- Result:
  - Team grade improved by *at least* 10% since I was elected project manager, allowing us to achieve an overall A grade for the three projects

Design, Make and Test Group Project September 2016 – June 2017

- Project title: "SPIDER - Small Parametric Insectobots Designed for Extreme Reconnaissance"
- Worked in a team of five to develop a platform capable of mass producing fully customizable robots adept at traversing rough terrain for military purposes such as reconnaissance
- Optimised robot traction and managed the presentation of group work
- Investigated - then performed adhesion experiments with - six different robot wheel-leg coatings and wrote group presentation scripts, including the project's final presentation
- Result:
  - Produced three smartphone-controlled, mass-producible SPIDER prototypes.
  - Project's final presentation, my individual team contribution (including peer review) and project as a whole awarded A grades

References available on request