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/](https://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 ShellTM 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**