

# CARLA CAMPÀS GENÉ

Barcelona, Catalonia

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## Experience

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### Google

October 2022

*Software Engineer Intern*

*Warsaw, Poland*

- Dataplex Metadata Search
- Develop Machine Learning based software to parse natural language search to faceted search.

### Polytechnic University of Catalonia

March 2022 - Present

*Research Intern*

*Barcelona, Catalonia*

- Researched the transformation of mobile applications with feature integration mechanism through dialogue-based feedback
- Developed open source conversational AI for user interaction
- Technologies used: Rasa, Python, NLTK

### Women Techmakers

March 2022 - Present

*Ambassador*

*Barcelona, Catalonia*

- Researched the transformation of mobile applications with feature integration mechanism through dialogue-based feedback
- Developed open source conversational AI for user interaction
- Technologies used: Rasa, Python, NLTK

### Meta

July 2022 - September 2022

*Software Engineer Intern*

*London, United Kingdom*

- Interaction Integrity: Unwanted Interaction Solutions Team
- Analyze potential harmful interactions in platform and create a model to predict these.
- Built a binary classifier to predict harmful interactions from features captured at friending time.

### Process Talks

June 2022 - September 2022

*Deep Learning Research Intern*

*Barcelona, Catalonia*

- Research potential deep learning natural language to code alternatives to extract JSON interpretations of a command.
- Natural Language Processing and Data Extraction
- Technologies used: PyTorch, TensorFlow, OpenAI API, Huggingface

### Deale

May 2022 - July 2022

*Data Scientist*

*Barcelona, Catalonia*

- Ameliorated the SME investment process by automating, through unsupervised learning, the question-and-answer section of the process and verified the accuracy of the generated response.
- Natural Language Processing and Data Extraction
- Technologies used: roBERTa, TSDAE, GPL, Sentence Transformers, PyTorch, Huggingface

### Google

July 2021 - September 2021

*Software Engineer Intern*

*London, United Kingdom*

- Implemented additional functionalities to internal automated software used for forecasting future resource requirements
- Facilitated user interaction by implementing filtered data search
- Training on Site Reliability Engineer
- Technologies used: Go, Markup, SQL, Google Data Studio

### Sant Joan de Deu

May 2019 – August 2019

*Volunteer Software Developer*

*Barcelona, Catalonia*

- Developed an application in order to facilitate coordination during the Magic Line event
- Coordinated for the charity race with over 13,000 participants in the streets of Barcelona
- Progressive web application – mobile and computer compatibility
- Technologies Used: Angular CLI, NodeJS, Express

## Education

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### Polytechnic University of Catalonia

*Postgraduate Degree in Artificial Intelligence applied to Deep Learning*

**October 2022 - March 2023**

*Barcelona, Catalonia*

### Polytechnic University of Catalonia

*Computer Engineering*

- Computing Mention

**September 2019 - June 2023**

*Barcelona, Catalonia*

### American School of Barcelona

*Middle and High School*

- International Baccalaureate Diploma Program
- Academic Excellence - Computer Science High Level
- Community Service Excellence Achievement Diploma

**September 2010 - June 2019**

*Barcelona, Catalonia*

### The British School of Venezuela

*Elementary School*

**September 2004 - June 2010**

*Caracas, Venezuela*

## Relevant Coursework

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|-----------------------------------|-------------------------|-------------------------|
| • Artificial Intelligence         | • Algorithms            | • Software Methodology  |
| • Distributed Intelligent Systems | • Theory of Computation | • Database Management   |
| • Data Structures                 | • Numerical Computation | • Computer Architecture |

## Technical Skills

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**Languages:** Python, Java, C++, C, HTML/CSS, JavaScript, SQL, Haskell, Go

**Developer Tools:** VS Code, Eclipse, NetBeans, IntelliJ, Google Data Studio, Android Studio, Rasa, Matlab

**Technologies/Frameworks:** Tensorflow, PyTorch, ANTLR, Linux, GitHub, JUnit, WordPress, Matlab, MacOS, AngularJS, NodeJS

## Research Projects

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### MPIDS | *Java*

**October 2021**

- Comparison of different ways to find a MPIDS from a graph. Used practices such as greedy, local search, meta-heuristics and Integer Linear Programming
- Built a Greedy algorithm for said problem that competes with the best known, to day, MPIDS Bouamama's greedy.

### Petition Catering | *Java*

**September 2021**

- Studied different local search algorithms for large-scale distribution applied to gas stations with various logistic centers to maximize revenue and minimize distance (and hours worked).
- Implemented system with Hill Climbing and Simulated Annealing as base algorithms with different operators and initial solutions.

## Software Projects

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### Recommendation System | *Java, Java Swing*

**January 2021**

- Through the use of artificial intelligence and machine learning algorithms designed a recommendation system in the form of a desktop application
- Acted as team leader to organize and delegate necessary tasks
- Applied K-Means and Slope One to calculate the proximity between users and recommend items based on group clusterization.
- Implemented Nearest Neighbors and One Hot to calculate the difference between items, and recommend those in closest proximity.

### Llull Programming Language | *Python, ANTLR*

**November 2021**

- Created a new, fully functional programming language from scratch using a compiler made with Python and ANTLR.

### Property graphs | *Haskell*

**September 2021**

- Implemented a graph data base management system based on the property graph data model.
- Evaluated queries against the generated property graphs in Haskell (functional programming language).

### Job Offers Informational System | *Python, Rasa*

**October 2019**

- Scraped university job site to enable notifications of all job posts via telegram chatbot.

### Error Correction Software | *Java, Java Swing*

**September 2018**

- Developed automatic error extraction for the IBDP Spanish AB Initio class.
- Automatic highlighting of errors with description and integrated grading system.