

# Daniel Barahona

SOFTWARE ENGINEERING · DATA SCIENCE

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## Summary

Upcoming Computer Engineer, currently studying at the Superior School of Computer Engineers (Autonomous Univ. of Madrid, Spain). Vim & Desktop Linux enthusiast. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises. Quick learner, successfully working in both team and self-directed settings.

## Education

### Degree in Computer Engineering

SUPERIOR SCHOOL OF COMPUTER ENGINEERS (AUTON. UNIV. OF MADRID, SPAIN)

- Average of 8.74 out of 10

Madrid, Spain

Sep. 2019 - Present

### International Baccalaureate Diploma

IES ROSA CHACEL

- Total of 38 out of 45

Colmenar Viejo, Spain

Sep. 2017 - Jun. 2019

## Relevant Courses

8.25/10 **Algorithm Analysis**, Analyzed search & sorting algorithms, studying their time/space complexity

Sep-Dec 2020

HONORS **Discrete Structures & Logic**, Propositional/predicate logic, algorithms for searching and traversing graphs and trees

Sep-Dec 2020

8.6/10 **Data Structures**, Database management with PostgreSQL, connectivity implementation with ODBC

Sep-Dec 2020

8.5/10 **Operating Systems**, Parallel programming with threads & pipes, synchronization with semaphores, design of UNIX file systems

Feb-May 2021

## Personal Projects

### Speech Assistant

JavaScript + HTML/CSS

'ALEXA' OR 'SIRI' CLONE MADE WITH JAVASCRIPT (ONLY SUPPORTS SPANISH LANGUAGE FOR THE TIME BEING)

2021

- Used the JavaScript Speech Recognition API for browser to capture users' voice and execute commands.
- Implemented functionality for playing background music, in order to help me study.
- Connected with OpenWeather API for retrieving the weather in any given city of the globe.

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### en\_linguistics

Python

SEMI-INFINITE BOOK GENERATOR INSPIRED BY 'THE LIBRARY OF BABEL'

2020

- Designed and developed a Python script that generates prepositional phrases out of a given set of adverbs, adjectives, nouns and verbs
- The program then procedurally generates lots of these phrases divided into paragraphs and chapters, thus creating a "book" that can be as long as the user wants it to be.

## Skills

### Programming Languages

Python, JavaScript, Java, C, SQL, IPythonNB, HTML, CSS

### Software

Linux, Git & GitHub, Vim, Visual Studio Code, IntelliJ IDEA, Eclipse, Microsoft Office

### Spoken Languages

Spanish (first language), English (Cambridge English awarded CEFR Level of C2)

### Personal Skills

Consistency, Drive, Self-Discipline, Eloquence