Daniel **Barahona**

SOFTWARE ENGINEERING · DATA SCIENCE

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Summary

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

Education

Degree in Computer Engineering   *Madrid, Spain*

SUPERIOR SCHOOL OF COMPUTER ENGINEERS (AUTON. UNIV. OF MADRID)   *Sep. 2019 - Present*

- Average: 8.74 / GPA equivalent: 3.5

International Baccalaureate Diploma   *Colmenar Viejo, Spain*

IES ROSA CHACEL   *Sep. 2017 - Jun. 2019*

- Total scored: 38/45

Relevant Courses

8.5/10	**Software Design & Analysis**, Developed an App project for a fictional client in which I learned about project management, team organization & UML design. Also learned about common design patterns.	*Sep-Dec 2020*
Honors	**Discrete Structures & Logic**, Propositional/predicate logic, algorithms for 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, synchronization with semaphores, structure of UNIX file systems.	*Feb-May 2021*

Personal Projects

Speech Assisstant   *JavaScript + HTML/CSS*

'ALEXA'/'SIRI' CLONE MADE WITH JAVASCRIPT (ONLY SUPPORTS SPANISH LANGUAGE FOR THE TIME BEING)   *Jun. 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.

English linguistics automated generator   *Python*

SEMI-INFINITE RANDOM BOOK GENERATOR INSPIRED BY 'THE LIBRARY OF BABEL'   *Dec. 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.

Hera   *C*

COMPILER FOR A CUSTOM PROGRAMMING LANGUAGE   *Aug. 2021*

- Created a lexer that separates a given string of code into tokens, which are then introduced in a simple Abstract Syntax Tree, and are finally translated into x86 Linux Assembly.
- Learned about programming languages, x86 assembly, and also deepened knowledge in C and the Makefiles.
- This project helped me gain experience with developer *"sidekick-tools"*, such as Git and Markdown files

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 (CEFR C2)
Personal Skills	Creativity, consistency, self-discipline, eloquence