

ALEXANDER GOMEZ | Curriculum Vitae

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PERSONAL INFORMATION

NAME

Alexander Gomez-Del-Carpio

NATIONALITY

Peruvian

EDUCATION

COMPUTER SCIENCE

Universidad Catolica San Pablo
Between top-5 students in my class
GPA 3.9 (Converted)
Expecting graduation: July 2025

2019 - Current

Arequipa, Peru

SKILLS

PROGRAMMING LANGUAGES & OTHERS Experienced: C/C++ | Python | SQL(SQLite) | HTML/CSS Familiar: JavaScript | Java | Matlab
FRAMEWORKS & TOOLS Git | CLI | Windows | WSL (Linux) | VSCommunity | Colab | VSCode | OpenGL

PROGRAMMING EXPERIENCE

SQLITE IMPROVEMENT

Advanced Data Structures
Performance issues solved, mainly, implementing a X-Tree in order to replace its R* Tree for range queries (C and SQL). Also, in my free-time I implemented all kinds of data structures.

5/2022 - 8/2022

Coursework

AI, CLUSTERING & SORTING

Algorithms
Constantly designing clustering (Data analytics) and sort algorithms (Python). Furthermore, a genetic algorithm and neural networks were implemented.

8/2019 - Current

CHOCOPYCOMPILER

Language Processing
Implementation of a tokenizer, parser with its parsing tree of the ChocoPy Language.

7/2023

Coursework

RUBIK'S CUBE & PARAGLADING

Graphic design
3D Rubik's cube (OpenGL) from scratch and issues solved and features added in Paraglading project VR.

08/2022 - 11/2022 & 05/2023

Coursework

RDT + UDP PROTOCOL

Network
Implementation of Reliable Data Transfer over UDP and its benefits using C++.

12/2022

Coursework

HONORS & AWARDS

MATH REGIONAL CONTEST

Part of school team in Math regional contest (ONEM).

2017

SOCCER STATE CHAMPION AND CAPTAIN

Captain for years of San Jose High-School Soccer Team.

2018

LANGUAGES

SPANISH Native

ITALIAN Advanced

PERUVIAN SIGN LANGUAGE Intermediate

ENGLISH Advanced

PORTUGUESE Upper-Intermediate

SWEDISH Elementary

INTERESTS

LANGUAGES AND TRAVEL I can discover new cultures and make friends speaking in their mother tongue, I have developed my communication skills in this way.

SPORTS I've practiced most of them, I have been professional soccer player what made myself disciplined (Barca Academy (USA) and in Peru (Captain in every team I've played)), besides I'm passionate about Formula one (I am a SIM player).

SCIENCE I always want to learn more about Computer Science but also I am used to constantly investigate and read about astronomy and Greek mythology.