

# ALEXANDER GOMEZ | Curriculum Vitae

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## PERSONAL INFORMATION

### NAME

Alexander Gomez-Del-Carpio

### NATIONALITY

Peruvian

## EDUCATION

### COMPUTER SCIENCE

Universidad Catolica San Pablo  
Expecting graduation: July 2025

2019 - Current

Arequipa, Peru

## EXPERIENCE

### MASTER THESIS STUDENT

Duck GmbH

Evaluation and Adaption of Duck Butchering Algorithms for Mobile Robots in Zero-gravity Environment

4 - 10/2021

That smaller hole, Mars

## SKILLS

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

## HONORS & AWARDS

### COLLEGE RANKING

Universidad Catolica San Pablo  
Within top 4 in College all the years.

2019 - Current

### MATH REGIONAL CONTEST

Math Contest

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

2017

## PROGRAMMING EXPERIENCE

### SQLITE IMPROVEMENT

Advanced Data Structures

Performance issues solved, principally, implementing a X-Tree in order to replace its R\* Tree for range queries (C and SQL).

5/2022 - 8/2022

### AI, CLUSTERING & SORTING

Algorithms

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

8/2019 - Current

### RDT + UDP

Network

Implementation of RDT with UDP's benefits from scratch using C++.

12/2022

## LANGUAGES

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**SPANISH** Native

**ENGLISH** Advanced

**ITALIAN** Advanced

**PORTUGUESE** Upper-Intermediate

**PERUVIAN SIGN LANGUAGE** Intermediate

**SWEDISH** Elementary

## INTERESTS

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

**SPORTS** I have been professional soccer player what made myself disciplined (Barca Academy (USA) and in Peru) and I love 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.