

Carlos Bustos Anriquez

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Professional Summary

Computer Engineering student with a previous degree in Astronomy. Experienced in scientific outreach, programming in C, Java, and Python, and developing physical simulations. Passionate about continuous learning, solving complex problems, and communicating technical ideas clearly.

Broad academic background and extensive experience as a private tutor.

Key Skills

- Programming in C, C++, Java, Python, Fortran, HTML, and CSS.
- Strong background in theoretical physics, mathematics, and numerical simulations.
- Effective communication and teaching experience in scientific outreach.
- Self-taught ability and strong problem-solving skills.

Education

UdeC	University of Concepción , Bachelor's Degree in Astronomy	Mar 2018 – Dec 2021
	• Intermediate Python • Knowledge: Electromagnetism I–II, Electrodynamics I–II, Classical Mechanics, Quantum Mechanics, Atomic Physics, Nuclear Physics, Calculus I–IV, Algebra I–II, Statistics	
UdeC	University of Concepción , Astronomy Degree	Mar 2022 – Jul 2023
	• Basic Fortran and advanced Python • Knowledge: Development of gravitational simulation software, Undergraduate Thesis	
UBB	University of Bío-Bío , Computer Engineering	Mar 2024 – Present
	• Intermediate Java, advanced C, HTML, and CSS • Knowledge: Object-Oriented Programming, Data Structures, Digital Systems, and Management	

Experience

Astronomy Outreach Team (EDA) , Astronomy Lecturer	University of Concepción
• Large group lectures for students aged 7–19 • Creation of interactive workshops • Science outreach in physics, mathematics, and astronomy	Apr 2020 – Sep 2021
SciCat , Founding Member and Content Creator	Feb 2020 – Nov 2021
• Founding member of a science outreach team for physics, mathematics, and astronomy • Created digital content, animations, and courses for Instagram @Scicat.cl	
Astronomical Software and Data Analysis , Teaching Assistant	University of Concepción
• Practical and lab classes, 4 hours per week • Level: 4th year of Astronomy	Mar 2022 – Aug 2022

Chilean Society of Astronomy (SOCHIAS), Speaker

- Talk: “Finding Streaming Motions in Ultra Compact Dwarfs as a Probe of the Star Cluster Merging Scenario”
- Part of the country’s most recognized astronomy conference series

University of La Frontera
Temuco
Mar 2023

Fullstack Developer, Vacation Manager

- Independent developer of an enterprise-level application
- Frontend and backend design and coordination using Flusk

Solchem SpA
Concepción
Jan 2026

Fullstack Developer, Human resources and assistance Manager

- Developer of an enterprise-level web application and mobile application.
- Frontend and backend design and database management: PERN.

University of Bío-Bío
Concepción
Mar 2026 - Jul 2026

Private Tutoring, Teacher

- Over 8 years of experience teaching private science and math lessons
- Students from elementary, high school, and early university levels
- PAES exam preparation
- Courses: Algebra, Calculus, Electromagnetism, Electrodynamics, Classical Mechanics, and Waves

Technologies

Programming: C++, C, Java, Python, JavaScript, SQL, Fortran

Web Development: HTML, CSS, React, Node.js, Django

Databases & Tools: PostgreSQL, Git

Computing: Linux, Networking, Parallel Computing, HPC, CUDA, GPU Programming