

Tomás Achaval Berzero

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Advanced Computer Science student passionate about the research and development of cutting-edge technologies. Particularly interested in the field of general-purpose Optical Computing.

Education

FaMAF - UNC / B.S. in Computer Science

2022 - PRESENT

5-year program equivalent to a Master's degree in Computer Science.

Thesis in progress in the field of Optical Computing.

Status: All courses completed. GPA: 9.69/10.

FaMAF - UNC / Computer Analyst

2022 - 2024

3-year intermediate degree in Computer Science. GPA: 9.61/10.

CAMBRIDGE FCE / First Certificate in English

2020

Level C1 (CEFR).

Skills

Programming Languages: C, C++, Python, Java, Bash, Assembly (LEGv8), Haskell.

OS & Frameworks: FreeRTOS, Linux (Ubuntu), FastAPI, Flutter.

Databases & Cloud: MySQL, MongoDB, Firebase.

Developer Tools: Git, GitHub, GDB, Jira.

Languages: Spanish (native), English (C1, advanced).

Academic Honors

SALUTATORIAN of the Faculty of Mathematics, Astronomy, Physics, and Computer Science at the National University of Cordoba for the 2026-2027 period, awarded for achieving the second-highest GPA among final-year students at the faculty.

DISTINCTION for having obtained one of the best scores (186/190) in Córdoba, Catamarca, La Rioja and San Luis in the B2 First exam, granted by Cambridge Assessment English.

Projects

Paragliding Variometer – Embedded System | [GitHub Link](#)

Developed a real-time variometer using an STM32 microcontroller and FreeRTOS in C. Integrated I2C for peripheral communication (sensors, LCD) and implemented interrupt handling alongside task synchronization using queues, semaphores, task notifications, and software timers.

QuickNotes – Mobile Application | [GitHub Link](#)

Developed and published a cross-platform mobile app using Flutter and Dart. Integrated Firebase to implement secure user authentication with verification and real-time cloud-based note hosting.

El Switcher – Web Game | [GitHub Link](#)

Engineered the complete backend architecture for a web game using Python, FastAPI, and SQLAlchemy. Implemented the database, core game logic, and client-server communication (HTTP, WebSockets), while building comprehensive test suites to ensure system reliability.

Experience

Independent Business Owner & Fitness Consultant | Remote | 2021 – Present

Leveraged a global freelance marketplace to build and scale a consulting service, successfully managing project delivery, data tracking, and communication for over 150 international clients.