

# ANTONIO CARLOS

## Software Engineer | Full-stack Developer

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Recent Computer Science graduate with hands-on experience building scalable full-stack applications. Proven ability to solve complex technical challenges and deliver high-quality software features. Eager to contribute to product innovation and continuous improvement within a collaborative engineering team.

## PROFESSIONAL EXPERIENCE

### SOFTWARE ENGINEERING INTERN | SIAG - ARGENTINE NAVY (NOVEMBER 2025 - PRESENT)

- Developed and implemented decoders for the ASTERIX (EUROCONTROL) protocol to enable real-time reception and visualization of maritime radar data.
- Engineered cross-platform applications using **C++** and the **Qt Framework**, successfully integrating legacy codebases while contributing to system design, unit testing, and technical documentation.
- Collaborated within an Agile environment using **GitLab** for version control, maintaining a high standard for software robustness, performance, and code quality.

## RELEVANT TECHNICAL PROJECTS

### PUFF&CHILL | FULL-STACK DEVELOPER (2025) [\[Github Link\]](#)

- Architected the frontend using **React** and **Next.js**, implementing dynamic routing, highly reusable components, and responsive UI design with **Tailwind CSS**.
- Developed a robust backend infrastructure utilizing **TypeScript**, **PostgreSQL**, and **Prisma ORM**, ensuring type safety and efficient database management.
- Automated deployment and delivery via **Vercel**, integrating CI/CD pipelines and version control through **GitHub** for streamlined development cycles.

### GYMLAB2024 | PYTHON DEVELOPER (2024) [\[Github Link\]](#)

- Engineered a **Python-based** backend focused on high-performance data manipulation and analysis using the **Pandas** library.
- Implemented Computer Vision algorithms for real-time motion tracking and pose estimation by leveraging **OpenCV** and **MediaPipe**.
- Developed interactive data visualizations and dynamic reporting modules with **Matplotlib**, integrated into the user dashboard to track performance metrics and progress.

### AYDSSONGINFO | ARCHITECTURE ANALYSIS (2024) [\[Github Link\]](#)

- Conducted in-depth codebase analysis in **Kotlin** to map end-to-end data flows from the UI to the backend, identifying architectural bottlenecks.
- Refactored core module components by applying **SOLID principles**, significantly improving code maintainability, modularity, and scalability.
- Extended data models by integrating attributes from external services and adapted database persistence layers to support new data structures.

## TECHNICAL SKILLS

- Languages & Frameworks:** C++, Python, Java, Kotlin, TypeScript, JavaScript (ES6+), React, Next.js, Node.js, Qt Framework.
- Databases & Backend:** PostgreSQL, MySQL, MongoDB, Prisma ORM, RESTful APIs.
- Cloud & Infrastructure:** AWS (S3, Lambda, RDS), Terraform (IaC), Linux/Unix, Docker, Networking (TCP/IP, OSI Model, Wireshark).
- DevOps & Tools:** CI/CD (GitHub Actions, GitLab CI), Git (GitHub, GitLab), Bash Scripting.
- Software Engineering:** Data Structures & Algorithms, Object-Oriented Programming (OOP), SOLID Principles, Design Patterns, Agile/Scrum.
- AI & Productivity:** LLM API Integration, Structured Prompting, AI-Assisted Development (Cursor, GitHub Copilot, Claude).

## EDUCATION & CERTIFICATION

### BACHELOR OF SCIENCE IN INFORMATION SYSTEMS ENGINEERING | UNIVERSIDAD NACIONAL DEL SUR (2020 - 2026)

- Department of Computer Science and Engineering (DCIC).

### CLOUD COMPUTING FUNDAMENTALS | IBM SKILLSBUILDER (2025)

- Focused on Virtualization, Containers, Microservices, and Cloud Native architecture.

### FIRST CERTIFICATE IN ENGLISH (FCE) | CAMBRIDGE ENGLISH (2018)

## LANGUAGES

- Spanish: Native
- English: Upper-Intermediate / Professional Working Proficiency (B2 Certified)