# Gabriel Carvalho

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🐙 cttbiel

## Summary

Computer Engineering student passionate about building scalable and efficient systems. Solid experience in C for systems programming and hands-on projects with React, Node.js, and Java. Skilled in algorithms, data structures, and problem-solving, with a strong desire to grow in backend and distributed systems. Currently developing personal projects in Python and studying software engineering fundamentals. Eager to contribute to real-world, high-impact applications at a global scale.

## Education

**Federal Center for Technological Education of Minas Gerais (CEFET)**     *Belo Horizonte, Brasil*
*B.S. in Computer Engineering*     *October 2024 – December 2028*

Strengthening software development skills through Object-Oriented Programming, Digital Systems, Data Structures, and Software Engineering. Additional studies in English and French to support effective communication in global tech environments.

**SESI Minas - SENAI Nansen Araújo**     *Belo Horizonte, Brasil*
*Diploma in Game Development*     *August 2022 – November 2023*

Learned game programming in Unreal Engine using BluePrint. Developed two major projects: "A Tail Tale" and "NinjaCat", showcased at GameExperience BH.

## Experience

**MRO Development Intern**     *Confins, Brazil*
*GOL Linhas Aéreas*     *May 2025 - Present*

- Support the Maintenance, Repair and Overhaul (MRO) department by developing digital solutions to optimize internal workflows.
- Design and analyze Power BI dashboards for operational metrics and strategic decision-making.
- Work closely with cross-functional teams, using data-driven insights to improve maintenance processes and efficiency.

**Remote Business Development Intern**     *Munich, Germany*
*Zero to One Search*     *July 2024 - December 2024*

- Conducted global market research and analysis to identify business opportunities, delivering daily reports to the CEO.
- Assisted in developing and implementing strategies for client acquisition and retention in the tech sector.
- Participated in frequent team meetings and communicated effectively in English with an international team.
- Used tools like Google Sheets, Docs, Zoho CRM, and Apollo to organize data and support sales operations.

## Projects

**Hospital Management System**     *Project Link* ↗

- Developed a full C-based management system with CRUD operations, dynamic memory allocation, and file handling. Emphasized efficiency and low-level data structures to simulate real-world hospital operations.
- Features include patient record management, doctor scheduling, and optimized data storage.
- Tools Used: C, Dynamic Memory Allocation, File Handling.

**Music Streaming Platform**     *Project Link* ↗

- Built a web-based music streaming application with pre-set playlists and seamless audio playback.

- Designed the frontend using React and implemented the backend with Node.js for efficient data processing.
- Tools Used: React, Node.js, JavaScript, HTML, CSS.

## Volunteer Experience

**Volunteer Instructor** *Belo Horizonte, Brazil*
*Python For Everyone* *February 2024 - Present*

I work as a volunteer instructor in the extension program "Python for Everyone," teaching introductory programming classes on Saturdays to high school students and teachers. Responsible for organizing didactic materials, presenting slides, providing individual support, and teaching logic, basic Python, and game development with the Pygame library.

**Academic Competition Team Member** *Belo Horizonte, Brazil*
*Fórmula Cefast* *November 2024 - January 2025*

Member of the Formula SAE academic competition team, representing CEFET-MG in automotive engineering challenges. Worked in the Instrumentation and Data Acquisition subsystem, contributing to practical activities, problem-solving, and technical development focused on embedded electronics.

## Courses and Certifications

- Entrepreneurship, Agility, and Career Ownership – Alura (ONE Program)
- Personal Development Training – Alura (ONE Program)
- Beginner Programming Training – Alura (ONE Program)
- Java: Creating Your First Application – Alura (ONE Program)
- Agile Management: Exploring Agility Concepts – Alura (ONE Program)
- Career Development: Understanding Market Demands – Alura (ONE Program)

## Skills

**Programming Languages:** C, Java, Python, JavaScript

**Frameworks & Tools:** React, Node.js, Django, Git, HTML/CSS

**Concepts:** Data Structures, Algorithms, OOP, REST APIs

**Soft Skills:** Teamwork, Communication, Problem Solving, Adaptability

## Languages

**Portuguese:** Native proficiency.
**English:** Fluent (C2). Proficient in technical and professional communication.
**French:** Basic (A2). Studying the language for professional development and international opportunities.
**Japanese:** Basic (A1). Learning the language with a strong interest in its cultural and linguistic aspects.