

João Fagundes

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) |

OBJECTIVE

Seeking internship opportunities or entry-level positions. Interested in backend, algorithm analysis, and data structures.

EDUCATION

Federal University of Technology - Paraná

Bachelor of Computer Science

Ponta Grossa, PR

Jul. 2021 – Jul. 2025

English Course by Mairo Vergara

English course focused on improving oral and written communication.

Online

Jan. 2020 – Present

EXPERIENCE

Scientific Initiation

Federal University of Technology

Feb 2024 – Present

Hybrid

- Participated in a scientific initiative to continue the doctorate work of a professor from Unicamp in the area of edge coloring in split graphs, collaborating with a professor from UFSCar. The goal was to advance knowledge in this specific area.

Data Science & Computer Vision for Industry

UTFPR Learning Lab - Fullstack Development

Oct 2022 – Jan 2024

Remote

- Actively participated in an innovative lab at the university, focused on providing a practical learning experience through a 6-month project bootcamp. During the program, had the opportunity to collaborate on a series of challenging projects involving the use of the following technologies:
 - Software development with Node.js, TypeScript, JavaScript, and React.
 - Management of MySQL databases for data storage and retrieval.
 - Problem-solving, applying concepts of algorithms and data structures.

Freelance Monitor

Monitor

Jul. 2021 – Jul. 2023

Remote

- Assisted students in solving exercises on Data Structures and Programming Logic in C/Portugol.
- Calculus 1/Calculus 2/DSA Monitor

SELECTED PROJECTS

Blockchain | C, Operating Systems, Data Structures

Jun 2023 – Jun 2023

- Project simulating a blockchain using efficient disk programming based on binary index files to optimize search and reduce accesses to external memory.
- Used various data structures and operating system concepts, always seeking to optimize the algorithm's time and space complexity.

RESTful API Development | TypeScript, NodeJS, MySQL, TypeORM

Feb 2023 – Feb 2023

- User authentication with the possibility of password recovery through a token.
- Implementation of security features such as rate limiter and password management using hashing.
- Use of the SOLID design pattern.

School Management System | Java, JPA, JPQL, JDBC, Maven, MySQL, Git

Jun 2022 – Jun 2022

- Developed a complete system in Java with various functionalities and connection to the MySQL database.
- Divided into student, teacher, and admin modules respecting topics related to requirements engineering.
- Use of the DAO Pattern. Development of a complete UML diagram.

English-English Dictionary | HTML5, CSS3, JavaScript, API, Git

Jan 2023 – Jan 2023

- Search for a word and view detailed information, as well as synonyms, antonyms, example sentences, meaning, play audio. All this through API integration.
- Form validation, responsiveness.
- Toggle dark/light theme.

REST Countries API | *HTML5, CSS3, JavaScript, RESTful API, Git*

Feb 2023 – Feb 2023

- View all countries from the API on the homepage.
- Search for a country using an input field.
- Filter countries by region.
- Click on a country and view information in a different section.
- Toggle dark/light theme, responsiveness.

Linux Terminal | *C, Data Structures, Operating Systems, Git*

Oct 2022 – Oct 2022

- Project that simulates the main commands in the Linux terminal through a tree structure.

Optimus Tech | *HTML5, CSS3, Git*

Dec 2022 – Dec 2022

- Challenge proposed by Alura after completing the front-end module.
- Responsive site using key HTML and CSS concepts.

PERSONAL ACHIEVEMENTS

UTFPR Programming Championship - 2nd Place

Jul 2021 – Dec 2021

UTFPR

Remote

- I was the leader of one of the participating teams.
- Duration of 6 months with various problems solved in the C language. At the end, the top three teams were awarded.

LeetCode 100+

Online Platform

- Solved 100+ exercises on LeetCode.

CERTIFICATIONS

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| <ul style="list-style-type: none"> • EF SET English Certificate™ (C1 Advanced) • English Test - Advanced - Wizard • Git / GitHub - B7WEB • HTML / CSS - B7WEB • Java Full Course - Udemy • Front-End Development (HTML, CSS, | <ul style="list-style-type: none"> JavaScript) • Linux Courses - Alura • Linux Essentials - 4Linux • Linux Minicourse - 4Linux • Web Development Courses (Front-end and Back-end) - LAMIA Bootcamp |
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TECHNICAL SKILLS

Languages: Java, C, SQL (MySQL), JavaScript, HTML/CSS, SCSS, TailwindCSS, TypeScript

Others: ReactJS, NodeJS, Express.js, Prisma, JWT, JPA, JPQL, Maven, JDBC, Hibernate

Developer Tools: Vim, NeoVim, Git, GitHub, GitFlow, VS Code, Eclipse

OS: Linux, ArchLinux, Windows

Relevant Topics: Data Structures (Queue, List, Stack, Trees, Heaps, Hash, Graphs), Algorithm Analysis (Time Complexity/Space Complexity), Clean Code, UML

Languages: Advanced English (C1 level)