

# Daniel Rezende

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in daniel-rezende

## Summary

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Undergraduate in Computer Engineering at UFS and working as a PIBIC scientific initiation student. I critically analyze requirements to ensure real value for projects, prioritize solid deliverables, and take care of continuous delivery. I base my technical decisions on data analysis and apply software engineering methods to increase productivity and generate lasting contributions.

## Education

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**Federal University of Sergipe, UFS**  
*Bachelor's in Computer Engineering*

2020 - 2026

## Experience

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**PIBIC Scientific Initiation Student, UFS**

July 2023 - Present

- Created a dataset of 500 obfuscated and original codes through modeling and implementation, achieving recall and precision metrics to evaluate plagiarism detection tools.
- Built a SvelteKit interface for manual comparison of Mermaid diagrams, developing custom components and making source code comparison faster and more intuitive.
- Developed a Python converter using Tree-sitter, generating reversible JSON with the logical tree that isolates essential information and allows comparison of implementations in C and Python.

## Projects

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**LLM Router Module**

February - March 2025

- With the goal of orchestrating multiple AI APIs and optimizing call costs, I implemented routing logic with Langchain and conversation memory in PostgreSQL, optimizing API call costs by up to 25%. Achieved 2nd place at the ChipLabs Hackathon.

**AvisaMed! System**

February - March 2025

- Led the team, designed the application prototype in Figma, and implemented the front-end in SvelteKit 5, delivering a responsive and accessible interface for the University Hospital's incident management system.

**SBC Programming Marathon Training**

July 2025 - present

- Lead and participate in weekly training sessions with support from university professors, aiming for qualification in the first phase of the SBC Programming Marathon.

## Technologies

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- **Programming languages:** Python, JavaScript, TypeScript, HTML/CSS, C, SQL.
- **Frameworks:** FastAPI, React, SvelteKit, Tailwind, LangChain, Tree-sitter, ANTLR.
- **Tools:** Git, GitHub, Docker, VS Code, Figma, PostgreSQL.
- **Languages:** Portuguese (native), English (fluent).