Diogo Gonçalves

SOFTWARE ENGINEER (Junior)

EXPERIENCE

Backend Developer – Cognitage
December 2022 – Present (Part-time | Remote)

During my time at Cognitage, I have worked on three major projects:

Blockchain Project: I was involved in the development of an open-source online casino platform using blockchain technology. The project was implemented with Solidity, focusing on creating a transparent and fair gaming environment. This experience significantly enhanced my skills in blockchain development and Solidity.

AI Project: Alongside the blockchain project, I also worked on an AI-focused initiative. This involved integrating the OpenAI API and an in-house AI into our systems. My contributions were primarily on the backend, working with technologies such as Rust and PostgreSQL.

Fully Homomorphic Encryption (FHE) Research: Currently, I am conducting research on Fully Homomorphic Encryption (FHE) using the OpenFHE library in Python. This project explores advanced encryption techniques that allow computations on encrypted data without decryption, with applications in data security and privacy.

These experiences have deepened my understanding of AI tools, blockchain technology, and cryptographic security in real-world applications, while also strengthening my backend development skills.

ACTIVITIES

CeSIUM Summer Camp
July 2022
Developed a Slack bot using Elixir to automate tasks and enhance team communication. Attended talks on frameworks like Vue.js and Flutter, broadening technical knowledge

BugsByte Hackathon
March 2025
Participated in the third edition of the BugsByte Hackathon, a 48-hour continuous programming event held at Forum Braga. Collaborated on an innovative project, enhancing problem-solving, teamwork, and coding skills under pressure.

CONTACT

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ABOUT ME

I am a Software Engineering student with a solid foundation in mathematics. I am eager to learn and grow, and I am always ready to take on challenging opportunities that will allow me to further develop my skills. I am confident that my strong technical abilities, coupled with my dedication and passion for learning, make me an asset in any software development environment. I am looking forward to working alongside experienced professionals in the field and contributing to innovative projects.

EDUCATION

Bachelor of mathematics
2018 – 2021
Faculdade de Ciências da Universidade do Porto

Bachelor of software engineering
2021 – present
Universidade do Minho

SKILLS

- Java
- Python
- Rust
- C / C++
- Elixir
- Solidity
- JavaScript (React.js / React Native)
- SQL (MySQL, PostgreSQL)
- Git