About Me

I'm Guilherme Soares, a computer and software engineer from Instituto Superior Técnico (Portugal). I'm passionate about programming, open-source, cybersecurity, and self-hosting. When I'm not coding I mainly engage in sports like climbing, gym and swimming.

Education

- **Master's in Computer and Software Engineering**
  - Specialized in **Cybersecurity** and **Distributed Systems**
  - Instituto Superior Técnico: 2022 - 2024
- **Erasmus Internship - Thesis**
  - Universitet i Oslo: Fev.2024 - Jul. 2024
- **Bachelor's in Computer and Software Engineering**
  - Instituto Superior Técnico: 2019 - 2023

Languages

- **Portuguese**
- **English**

Reach Me At

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Guilherme Soares

Computer and Software Engineer

Experience

Summer Internship @ Caixa Mágica   Jun. 23 - Aug.23
- Designed and developed a RESTful application in C# with secure user authentication and management, implementing best security practices to ensure data integrity and confidentiality.
- Utilized Docker to containerize and streamline the deployment process, enabling easy scalability and efficient development workflows.
- **Skills**: **C#, Docker, Git**

Projects

BestGC++
- Developed a Web Application that selects the best Garbage Collector for a given Java application by profiling its execution.
- Designed and implemented a live metrics dashboard to provide real-time insights into application performance, including Heap Usage, CPU utilization, and I/O metrics.
- **Skills:** **Java, Spring Boot, Javascript, Git**

BenchmarkGC
- Designed and implemented a benchmarking tool to evaluate Java applications, collecting performance metrics and scoring all Java Garbage Collectors (GCs) based on execution time and GC pause duration.
- Aggregated key Garbage Collector statistics, including pause count, total pause time, 90th percentile pause duration, and other metrics, providing users with actionable insights into application performance.
- **Skills:** **Python, Git**

Website Development Project (BioDrive) for NEBIST, Núcleo de Engenharia Biológica do Instituto Superior Técnico
- Designed and implemented the backend for BioDrive using Node.js, integrating FenixAPI and JWT for secure authentication and Google Drive API to enable seamless collaboration and efficient resource sharing among Bio-Engineering students.
- Leveraged GitHub Actions to automate updates for BioDrive, ensuring reliable deployment workflows and minimizing maintenance overhead.
- **Skills:** **Node.js, Bootstrap, Git**