

Braga, Portugal

Diogo Gonçalves

+351 933777932
diogo.goncalves@gmail.com
goncalves-diogo.me

Employment

Bsolus

October 2020 – November 2021

Software Engineer

- Designed and developed a Marketing Automation platform based on a microservices architecture with horizontal scalability. Developed the CI/CD pipeline integrating with the AWS.
- Maintained E-commerce platforms.
- Technologies utilized included: NestJs, TypeScript, Docker, SQL, MongoDB, Terraform, GCP, Bitbucket, Jira, Git, PHP, SQL.

Education

University of Minho

October 2016 – April 2022

- Master's degree in Informatics Engineering specialized in Computer Graphics and Parallel & Distributed Computing.
- Bachelor's degree in Informatics Engineering, July 2019.

Technical Experience

Projects

- **Ray tracer** (2020). Implemented Ray tracing algorithms in C++ and CUDA, optimized the implement by adding features such as russian roulette, Parallel BBVH, multi-threading.
- **Interactive Wind** (2020). Developed a real time realistic wind simulation in GLSL. Focus of the project was to research known implementations of wind interaction with multiple objects and combine them into a realistic solution to integrate with an engine using shaders.
- **Procedural Terrain Generation** (2019-2020). Developed a real time procedural physically accurate terrain generator. The focus of the project was to research and implement graphical algorithms published on research papers. Then combine them into a procedural terrain generator using shaders.

Technical skills

- **Advanced** C++; C;
- **Intermediate** GLSL; Bash; Python;
- **Basic** Vimscrip; Lua; CUDA;

Languages

- Portuguese - Native speaker
- English - C1 level