joaopintojpgp@gmail.com
+351 927460321

João Pinto
jpnt.github.io

Github: https://github.com/jpnt
Linkedin: https://linkedin.com/in/
jpgpinto/

Education

Porto, Portugal	**Instituto Superior de Engenharia do Porto (ISEP)**	**2025-Present**

- Master's Degree in Critical Computer Systems

Porto, Portugal	**Instituto Superior de Engenharia do Porto (ISEP)**	**2022-2025**

- Bachelor's Degree in Computer Engineering (Licenciatura em Engenharia Informática)

Employment

Porto, Portugal	**Sysnovare Innovative Solutions S.A.**	**February 2025 - July 2025**

- Deployed containerized applications across development, staging, and production environments
- Documented security comparison between Docker and Podman for enterprise adoption
- Built GitHub Actions workflows for automated testing and deployment
- Implemented infrastructure as code using Ansible for repeatable deployments

Technical Skills

- Primary: C; Linux; Git; Shell Scripting; Docker/Podman; CI/CD;
- Secondary: Java; C#; Go; Python; JavaScript/TypeScript; React; .NET; Node.js; PostgreSQL;
- Exposure: Rust; Kubernetes; Azure; REST API Design;

Selected Projects

RVOS (RISC-V FreeRTOS Analysis)

https://github.com/jpnt/RVOS

- Analyzed FreeRTOS context switch implementation on RISC-V ISA
- Measured syscall overhead and identified scheduler bottlenecks
- Evaluated FreeRTOS data structure efficiency for embedded systems

Enterprise .NET 8 Application

https://github.com/jpnt/surgicalmanagement-back-end

- Implemented Onion Architecture with dependency injection and repository pattern
- Designed RESTful API with authentication and data validation layers
- Configured SQL Server database with Entity Framework Core

Applications File Bot (Parallel File Processing System)

https://github.com/jpnt/LAPR4-SCOMP

- Developed multi-process file monitoring system using POSIX signals and pipes
- Implemented parent-child process architecture with configurable worker processes
- Created file distribution system for processing recruitment applications
- Built signal handling for SIGINT termination and inter-process communication