Pedro Mendes

Informatics Engineering Student at Instituto Superior Técnico de Lisboa

Curriculum Vitae

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Skills

Programming: Rust, C, C++, Java, C#, Kotlin, Javascript, Bash, Python, Ruby, Haskell, Elixir.

Markup LaTeX, Markdown, Html, CSS.
Databases: SQL (mysql, postgres), NO-SQL (mongodb, neo4j).
Tools: Advanced Git knowledge, Linux, GNU core utils, Docker.

Highlighted Projects

C++ & Go	**Internet of Sensors and Actuators**	Repository
	Assembled an arduino with various sensors and one with various leds and established high throughput, low latency and reliable connection between them over the internet	Grade ??/20
C++	**Generic Graphic Engine (University project)**	Repository
	A generic graphics engine, capable of efficiently rendering any kind of scene defined in an XML configuration file	Grade 20/20
Rust	**Scryfall**	Crates.io
	A type safe and complete wrapper around a REST API for fetching and searching for cards from the Magic: The Gathering™ card game.	
Java	**An auto scalling sudoku solver**	Repository
	Using AWS's API's and by instrumenting the code of a sudoku solving program we were able to scale up and down the resources available to the application according to how much computing power it was needing in real time	Grade 17/20
Kotlin & Rust	**Secure Child Tracking Service (University project)**	Repository
	Developed a secure and easy to use app that allows parents to track where their child is, taking care to not compromise the sensitive data the app needs to work with.	Grade 19/20

Experience

2019–∞	**Open source contributions**	Github
	rust-lang/rust	
	serenity-rs/serenity	
2019	**SEI: Semana da Engenharia Informática**	CeSIUM
	An event populated with talks and workshops with various companies. I developed the frontend for the event's badge collecting competition.	
2018–Now	**Co-Creator of the official MiEI Discord**	Discord
	A 1000+ member discord community focused on helping new students and sharing knowledge, where I have provided extensive tutoring and provided a space for new students to feel welcomed and included.	
2018–2020	**Member of CAOS**	CeSIUM
	An open source group at CeSIUM, the software engineering student centre at Minho University.	

Education

2019 — Now	**Masters in Information Systems and Computer Engineering**	IST
	Network and Computer Security: 15/20	
	Advanced Programming: 18/20	
2015 — 2019	**Bachelors in Science of Computer Engineering**	University of Minho
	Grade Average: 15/20	
	Informatics Labs (1, 2, 3 and 4) Average: 19/20	
	Algorithms and Complexity: 16/20	
	Program Calculus: 20/20	
	Imperative and OO programming: 18/20 and 19/20 (respectively)	
	Compilers: 17/20	