Pedro Mendes

Backend Software Engineer

Curriculum Vitae

: Braga, Portugal | : pedro.mendes.26@gmail.com | : mendess | : mendes2526

Skills

Programming: Rust, C, C++, Kotlin, Bash, Typescript, Python, Java, C#, Javascript, Ruby, Haskell, Elixir.
Spoken: Portuguese Native, English C2.

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

Experience

2021-Now	**Senior Backend Engineer, Library Developer**	Speechify
	At **Speechify** I integrate a team dedicated to rewriting the core of the experiences in the **Kotlin Multiplatform** stack, which transpiles to ObjectiveC and JS, as well as compiling to jvm bytecode for android, forcing me to understand how the diferent memory models and async runtimes of these 3 ecosystems interact.	
2021-2021 (10 months)	**Full stack and IoT engineer**	Emitu
	Emitu offers enterprise-grade Internet of Things (IoT) solutions combining smart sensors and software to gain real-time visibility over asset operations, usage, and status.	
2019–∞	**Open source contributions**	Github
	rust-lang/rust serenity-rs/serenity bread-graphics/breadx	
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 helped create a space for new students to feel welcomed and included.	

Highlighted Projects

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.	
C	**Parallel and Distributed Computing (University project)**	Repository Grade 19/20
	Successfully used openMP and MPI to develop a blazingly fast, multiprocess system to calculate product recommendations in C.	
Kotlin & Rust	**Secure Child Tracking Service (University project)**	Repository Grade 19/20
	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.	
Markdown	**ResumosMIEI**	Repository
	A collection of notes written in Portuguese to help students study the base concepts of computer science, lectured at University of Minho.	
C++	**Generic Graphics Engine (University project)**	Repository Grade 20/20
	A generic graphics engine, capable of efficiently rendering any kind of scene defined in an XML configuration file	

Education

2019 — 2020	**Masters in Information Systems and Computer Engineering**	**Instituto Superior Técnico**
	Forensics Cyber-Security: 16/20	Average: 15/20
	Network and Computer Security: 15/20	
	Advanced Programming: 18/20	
2015 — 2019	**Bachelors in Science of Computer Engineering**	**University of Minho**
	Informatics Labs (1, 2, 3 and 4) Average: 19/20	Average: 15/20
	Algorithms and Complexity: 16/20	
	Program Calculus: 20/20	
	Imperative and OO programming: 18/20 and 19/20 (respectively)	
	Compilers: 17/20	