

Rodrigo Barbosa

Software Developer / Computer Engineering Student



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📍 Portugal · Open to relocation

Building software where engineering rigor meets design clarity - from Spring Boot backends to the interfaces people actually touch.

01 About

Computer Engineering student who moves comfortably between backend logic and the visual layer around it. Recent work spans a role-based event-management platform built on Java and Spring Boot, a Python runner for esoteric programming languages, and a published VS Code theme designed around deliberate, meaningful use of color. Still early in the craft, and drawn equally to code that is correct and interfaces that are considered - currently deepening React and Next.js on top of a Java and design foundation.

02 Technical Skills

PROGRAMMING

- Java
- Python
- JavaScript
- C#
- SQL & T-SQL

DESIGN

- Figma
- Adobe Photoshop
- After Effects

WEB

- Next.js & React
- Node.js
- Vite
- HTML5 & CSS3

GAME DEVELOPMENT

- Unity Engine

DATABASE

- MySQL

DEVELOPER TOOLS

- Git & GitHub

03 Featured Projects

UPT Event Management Portal

github.com/barbosaz1/JavaFxClient_Equipa10 ↗

Full-stack academic platform - JavaFX desktop client + Spring Boot REST API

Stack - Java 21 · JavaFX · Spring Boot 3 · Spring Data JPA · MySQL 8 · Maven

A role-based system for Universidade Portucalense covering four user types - admin, event manager, instructor, student - with venue and audit management, QR check-in, live notifications, and two-tier certificate issuance, built across a dark, shadcn-inspired desktop UI and a decoupled REST backend.

RESULT Shipped a complete four-role platform end-to-end as a two-repository client/server system. · **LEARNINGS** Kept a REST contract and permission model consistent across a desktop client and a separate service layer.

Cursed Runner

github.com/barbosaz1/cursed-calculators ↗

One interface for five esoteric programming languages

Stack - Python

A terminal runner that executes LOLCODE, Rockstar, Shakespeare, Chef, and Brainfuck programs through a single entry point, with live streaming output, a built-in source viewer, and reference docs for each language's syntax and quirks.

RESULT Five unrelated execution models unified behind one consistent, interactive CLI. · **LEARNINGS** Parsing deliberately unconventional grammars and designing an interface flexible enough to hide the differences.

Xubz Dark

github.com/barbosaz1/xubz-theme ↗

Published VS Code color theme - marketplace ID xubz.xubz-theme

Stack - VS Code Theming API · JSON · Design Systems

A dark editor theme built on one rule - every color carries meaning. Soft, non-pure-black backgrounds, red reserved strictly for errors, and distinct treatment for classes, interfaces, functions, and types, tuned for Nerd Fonts including JetBrains Mono and FiraCode.

RESULT Published to the VS Code Marketplace, installable by any developer worldwide. · **LEARNINGS** Translating design-system restraint into a distributed, real-world developer tool.

04 Education

BSc in Computer Engineering

Universidade Portucalense

In progress

05 Languages

Portuguese

NATIVE

English

PROFESSIONAL

06 Tools

- Git & GitHub - version control
- Figma - interface & product design
- Adobe Photoshop - visual design
- After Effects - motion & graphics
- Unity Engine - game development
- Maven - Java build & dependencies

07 Additional Skills

- Role-based access & permission modeling
- REST API design across client/server boundaries
- Relational schema design (MySQL)
- Editor & design-system theming
- Comfortable reading and adapting unfamiliar codebases

08 GitHub & Open Source

PUBLIC WORK

github.com/barbosaz1

Public repositories spanning a full-stack academic platform, an esoteric-language interpreter, and a published VS Code theme - three different problems, one consistent attention to detail.

[View full profile ↗](#)

SCAN · GITHUB

JavaFxClient_Equipa10

JavaFX client for the UPT event platform.

cursed-calculators

Esoteric-language interpreter runner.

xubz-theme

Published VS Code color theme.

09 Portfolio

PERSONAL SITE

Oxbarbosa.dev

An author-led portfolio with full project case studies, a running journal, and the design thinking behind the work in this résumé.

[Visit site ↗](#)

SCAN · PORTFOLIO