

# Rafael Guimarães

Developer & Designer

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## Projects

### Mathera

<https://apps.apple.com/app/apple-store/id6758154438>

iOS app for AI-generated personalized meditations.

Tech: Swift 6, SwiftUI, Vapor, Supabase, Google Cloud Text-to-Speech, Fly.io

### iglu

<https://apps.apple.com/app/apple-store/id6740549046>

iOS micro-journaling app with semantic search and intelligent recommendations.

Ranked #2 Product of the Day on Product Hunt.

Tech: Swift 6, SwiftUI, Core ML, SwiftData, StoreKit 2, CloudKit, WidgetKit, App Clips

### Pools in São Paulo

<https://piscinas.iglu.website>

Counted swimming pools in São Paulo using aerial imagery.

Trained a segmentation model (YOLO 11) and ran it on São Paulo aerial imagery.

Created a heat map showing pool concentration in São Paulo.

Tech: Python, YOLO 11, SAHI, COCO, Roboflow, Jupyter Notebooks

### Brasília in a Nutshell

<https://apps.apple.com/app/apple-store/id6751351526>

Interactive iPad app presenting Brasília.

Stack: Swift, SwiftUI

## Education

### Federal Institute of Brasília

02/2026 – 12/2029

Bachelor's Degree in Computer Science

## Awards and Certifications

### Alura

2021 – 2022

18 courses (167 hours) in design, programming, and business.

<https://cursos.alura.com.br/user/rafael-bg/fullCertificate/51f4b79fb490f26a90a83a2b059d48c8>

### Brazilian Robotics Olympiad

2021

Gold medal in the theoretical category.

## Skills

**Languages:** Swift, Python, C/C++, Dart

**Mobile:** SwiftUI, SwiftData, Core ML, CloudKit, WidgetKit, App Clips, StoreKit, RevenueCat, Flutter

**Backend:** Vapor, Supabase

**Machine Learning:** Sentence Embeddings, YOLO, Roboflow, Computer Vision

**Design:** UI/UX Design, Figma, Sketch, Typography

**Hardware:** PCB Design, ESP32, Embedded Systems

**Tools:** Xcode, Git/GitHub, Sketch, Figma, Fly.io, Codex

**Other Interests:** Typography, 3D Printing, Industrial Design, Photography

## Languages

**English:** fluent

**Portuguese:** native

\* Available for on-site work anywhere.