Miguel França

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PROFILE

I'm a final year student completing a 5 year integrated master's degree in Computer Science at FCT NOVA. I've been programming since I was in high school and I love it. I am very passionate about all aspects of software development and enjoy learning new technologies.

EDUCATION

M.Sc. Computer Science,
FCT NOVA - School of Science and Tecnology
2018 – 2023

CERTIFICATES

- Create and Manage Cloud Resources ⌕
- Google Cloud Fundamentals: Core Infrastructure ⌕
- Perform Foundational Infrastructure Tasks in Google Cloud ⌕
- Google Cloud Big Data and Machine Learning Fundamentals ⌕
- Perform Foundational Data, ML, and AI Tasks in Google Cloud ⌕
- First Certificate in English

LANGUAGES

Portuguese | English

SKILLS

- Languages: C++, Java, Python, C, Javascript, HTML
- Tools: Linux, Git, Excel, Unity, Qt, Webflow
- Backend: Google Cloud, Azure
- Soft skills: Resolução de conflitos, Adaptabilidade, Resolução colaborativa de problemas

PROGRAMMING PROJECTS

VolunTier, *Solidarity App*
Demo ⌕
- Worked on a team of 5 students to develop and deploy a website and an android application.
- Used Google Cloud App Engine for the backend and website hosting.
- Over 70 different endpoints for all the functionalities
- Users can login, recieve notifications by email, share and join solidarity events, create events and routes of events displayed using Google Map's API
- Chat moderators have higher privilege on event's chat
- Admin users can change permissions/remove/ban 3 other types of users in the system.
- Statistics/parameters about the system can be viewed/changed on the backoffice
- Used Google Datastore and Cloud Storage for data storage

Mobile automation application
- Developed and deployed a platform for android phones task automation and remote management.
- Used Google Cloud App Engine and Memcache on the backend
- An android application developed in Java that continuously clicks on specific points on the screen using programmed logic and pixel analysis
- Possible scheduling for when to begin and end the clicking logic
- Made a website with secure access that can request live video from the android phone and send requests for a diversity of actions, using Javascript and Webflow
- Support for multiple phones and statistics on the website

AWARDS

Hachathon at FCT NOVA, 6th place and an honorable mention for the effort, *N.Inf FCT NOVA* 2019
Successfully created an interactive genetic algorithm that evolved a neural network that could control a virtual car with drift physics around a track made by the user. Also made a local multiplayer game out of the core functionalities of the car and track. Everything was made with C++.