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Hello world!

I thrive on learning new skills and delving into exciting coding projects. My enthusiasm drives me to explore cutting-edge technologies and conquer complex challenges. I take ownership of the projects I undertake, always striving to deliver optimal results.

EXPERIENCE

Present Feb 2024	Senior Full Stack Engineer @ Payments Team, PREZI Lead exciting projects such as: <ul style="list-style-type: none">› Implementation of promotional codes› Integration of Apple Pay and Google Pay› Dynamically Scheduled Payments› Partnership collaboration with Chegg Responsibilities: <ul style="list-style-type: none">› Lead software development projects› Ensure quality and scalability of code for 100 million users› Develop high-quality software design and architecture› Identify, prioritize and execute tasks in the software development life cycle› All the below items
Feb 2024 Apr 2023	Full Stack Engineer @ Payments Team, PREZI Responsibilities: <ul style="list-style-type: none">› Implement user-facing features (payment forms)› Develop high fidelity functional prototypes to validate ideas› Integrate new tools (payment gateways, fraud tools)› Maintain and improve existing tools and services› Collaborate with other cross functional teams to design and implement solutions best matching our customer's needs. Awarded for "Innovation: Honoring engineers who come up with creative and innovative solutions" on September 2023.
Mar 2023 Oct 2022	Full Stack Engineer @ Growth Platform Team, PREZI Responsibilities: <ul style="list-style-type: none">› Providing/supporting platform components to drive Sign-up/user acquisition› Providing Engagement tools to Marketing, Support & Customer Teams› Supporting Pricing & Packaging infrastructure to drive company growth› Supporting Enterprise growth with user provisioning & account management capabilities› Enabling monetisation growth by providing robust payment infrastructure and a seamless checkout experience to our users. <div>Python Django Typescript React Angular SQL Docker Kubernetes Braze Zuora Adyen Grafana</div>
Sep 2022 Sep 2022	Biomedical Engineering Consultant, KILO HEALTH Consultation services regarding biomedical signal processing for the Cardi.Health team. Worked with Python and React Native. I developed ECG algorithms, debugged problems, and improved the performance of the mobile application. <div>Python React Native Typescript IoT</div>
Aug 2022 Jan 2021	Head of Software, SCIENTISST Development of APIs for interacting with microcontrollers used for biosignals acquisition; a standalone Progressive Web App (PWA) that allows the acquisition, plotting, and recording of biosignals; and maintenance of the BioSPPy project, a Python toolbox for biosignal processing. <div>Flutter HTML/CSS Javascript Python Vue.js</div>

Aug 2022	Research Fellow, AIMHEALTH PROJECT - DSAIPA/AI/0122/2020
Mar 2021	Development of a mobile application focused in biosignals acquisition and telemedicine; and system administration of a VPS running dockerized servers. Appwrite Docker Flutter Linux Nginx
Mar 2022	Full Stack Developer, SEMANA DA BIOENGENHARIA
Feb 2020	Development of a mobile (Android/iOS) and web application using Flutter and Firebase. Firebase Flutter
Sep 2020	Research Fellow, E-CoViG - 255_596880547
Apr 2020	Development of a mobile application using Flutter for monitoring COVID-19 patients. Flutter Java
Jun 2020	Full Stack Developer, TEDxULISBOA
Jul 2018	Development of the TEDxULisboa 2020 event's application using Flutter and Firebase; and the TEDxULisboa 2019 event's using Java Android and Firebase. Firebase Flutter Java Android
Jul 2018	Web Developer, TEDxISTALAMEDA
Jul 2017	Development of the TEDxISTAlameda 2018 website using HTML, CSS and JavaScript. CSS Javascript HTML

EDUCATION

2021-2022	(DNF) PhD in Biomedical Engineering , Instituto Superior Técnico, Lisbon, Portugal
2018-2021	MSc in Biomedical Engineering , Instituto Superior Técnico, Lisbon, Portugal
2018-2019	Exchange Program - Erasmus , Politecnico di Torino, Turin, Italy
2015-2018	BSc in Biomedical Engineering , Instituto Superior Técnico, Lisbon, Portugal

SKILLS

Programming Languages	Dart, Golang, Lua, HTML/CSS, Java, Javascript, Python, SQL, TypeScript
Frameworks	Django, Flutter, React.js, Vue.js
Applications & Tools	Android Studio, Docker, Firebase, Git, Grafana, Latex, NeoVim, Xcode
Languages	Portuguese (native), English (fluent), Italian and Spanish (beginner)

PROJECTS

MONEYPLS

2024-PRESENT

[App Store](#)

Money management app that allows users to track their expenses and manage their savings/investments.

[Dart](#) [Flutter](#) [SQLite](#)

BUTTONS_TABBAR

2020-PRESENT

[pub.dev](#) [github.com/afonsocraposo/buttons_tabbar](#)

Development of Flutter package that implements a TabBar where each tab indicator is a togglable button. Used by 1.4k people and it has 78 stars on Github.

[Dart](#) [Flutter](#)

ALFRED GHREPOS WORKFLOW

2024

[github.com/afonsocraposo/alfred-ghrepos](#)

Alfred workflow that allows to quickly search and access GitHub repositories using fuzzy finding. It streamlines the process of finding and navigating to repositories, enhancing productivity and workflow efficiency

[Golang](#) [Alfred Workflow](#)

SENSE WEB

2022

[SENSE](#) [github.com/scientisst/sense-web](#)

Development of a progressive web application using Vue.js that allows the acquisition of biosignals signals using a ScientISST Sense device and serial-based devices (e.g. Arduino). The application enables the live plotting and recording of time-series.

[Chart.js](#) [HTML/CSS](#) [Javascript](#) [Vue.js](#)

SCIENTISST SENSE JAVASCRIPT API

2022

[npm](#) [github.com/scientisst/scientisst-sense-api-web](#)

Development of an API that interacts with an ESP32-based device for biosignals acquisition. The API comprises Bluetooth serial communication using the Web Serial API, as well as wifi-based communication using Web Sockets.

[Javascript](#) [Web Serial API](#) [WebSocket](#)

SCIENTISST SENSE PYTHON API

2021-2022

[PyPI](#) [github.com/scientisst/scientisst-sense-api-python](#) [Wiki](#)

Development of an API that interacts with an ESP32-based device for biosignals acquisition. The API comprises Bluetooth serial communication, as well as wifi-based communication using TCP and UDP.

[NumPy](#) [Lab Streaming Layer](#) [Multithreading](#) [Python](#) [Sockets](#)

FLUTTER ICON FINDER

2021

[Website](#) [github.com/afonsocraposo/icon_finder](#)

A website built using Flutter that helps users search through the available Flutter icons. Deployed with Firebase.

[Firebase](#) [Flutter](#)

E-COVIG

2020

[Google Play Store](#) [Website](#) [Video](#)

Development of a mobile application using Flutter for monitoring COVID-19 patients using the smartphone as the core vital signs sensor. This project included the development of a specialized wearable, to which I also contributed, for measuring body temperature, heart rate, and blood oxygenation, and counted with the collaboration of multiple entities: National Health Service entity (Hospital de Santa Maria), two institutions of the national R&D system (Instituto de Sistemas e Robótica, and Instituto de Telecomunicações) and an SME (BrainAnswer).

[Arduino](#) [Dart](#) [Flutter](#) [Java Android](#)

REDDIT VIDEO

2020

[Example](#) [github.com/afonsocraposo/reddit-video](#)

Implementation of a Python program that generates videos from Reddit Portuguese threads, using Text-To-Speech and FFmpeg.

[Python](#)

GENETIC NEURAL NETWORK FLAPPY BIRD

2018

[Video](#) [github.com/afonsocraposo/Genetic-Neural-Network—FlappyBird](#)

Development of a genetic algorithm coupled with neural networks for teaching an AI agent to play the well-known game Flappy Bird.

[PyGame](#) [Python](#)