Ana Margarida Silva

ams-amargarida
@hotmail.com

(+351) 918246437

Personal Pages
Linkedin:
ana-margarida-silva
Github:
@BeeMargarida
Gitlab:
@BeeMargarida

City/Country
Porto, Portugal

Ana Margarida Silva

Software Developer

About Me My name is Ana Margarida Silva and I am a Software Engineer. I'm comfortable on either side of the stack, doing both front-end and back-end work. I have a passion for Open Source Software and tinkering with hardware. I'm always willing and happy to learn new technologies and improve my current skills.

Experience

July 2022 - December 2022, *Software Engineer,* Replai

Full-stack work on a fast paced startup whose product is a video intelligence platform that uses computer-vision AI to tag creatives at scale and help app developers understand what are the key drivers or detractors of performance of their video creatives. Helped develop a React platform, in addition to developing API endpoints that queried a PostgreSQL database. Technologies used are Typescript, NodeJS, React and PostgreSQL.

September 2019 - July 2022, *Software Engineer,* Platforme

Worked on a startup that used 3D models to power their made-to-order pipeline. The products I worked on ranged from a web app for customizing 3D models (VueJS), a mobile application to follow and update the order's status on the factory floor (React Native), the backend to power all of this (Python and NodeJS) and micro-services that complimented with additional functionality (NodeJS, Apache Kafka, Typescript). In addition to this, also developed SDKs to integrate with the platform (Javascript, React, VueJS, Kotlin and Objective C).

October 2019 - September 2020, *Software Engineer Trainee - Part-Time,* Platforme

Work in several projects, including back-end and core services using Python and Node.JS, front-end interfaces using Vue.js/React.js to client side tools using Javascript.

July 2018 - September 2018, Summer Internship at Blip

During the summer of 2018, I made an internship at Blip, a company that is a part of the group PaddyPower Betfair. The goal of the internship was the development of an internal tool that allowed writing and reading Protobuf messages into and from Kafka topics, as well as creating Protobuf schemas on runtime. The tool was made with Betfair's Cougar framework in Java, based in Spring, with integration with Apache Kafka and the frontend utility made in React. A blog post about the experience was written here.

Open-Source

2022-Present, Core Maintainer of SvelteUI library (open-source)

Develop and maintain a component and utility library for Svelte. Link to the website here.

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Publications

Visually-defined Real-Time Orchestration of IoT Systems

- DOI: 10.1145/3448891.3448938
- Conference: EAI MobiQuitous 2020
- Authors: Ana Margarida Silva, João Pedro Dias, André Restivo and Hugo Sereno Ferreira

A Review on Visual Programming for Distributed Computation in IoT

- DOI: 10.1007/978-3-030-77970-2_34
- Conference: ICCS 2021
- Authors: Ana Margarida Silva, João Pedro Dias, André Restivo and Hugo Sereno Ferreira

Courses

2017 - "*The Web Developer Bootcamp*" course

Completion of an online course, from Udemy, that teaches full stack web developing. It includes technologies like HTML5, CSS3, Javascript, NodeJS, ExpressJS, MongoDB and others.

Education

2015-2020, Masters Degree in Informatics and Computing Engineering in Faculty of Engineering of the University of Porto

Final grade: 16.4

- *Masters Dissertation in* **Orchestration for Automatic Decentralization in Visually-defined IoT** - Development of a prototype, extending from Node-RED, that enables the automatic decentralization of an IoT system. The devices in the network communicate their computational capabilities to the orchestrator, which is responsible for automatically partition the computation and sending the generated tasks to the devices, leveraging their computational power. Final grade: 20. Dissertation can be accessed here.

2004-2015, Agrupamento de Escolas do Búzio

Primary and high school

Software Development Skills

Programming Languages, Technologies and Frameworks

- ReactJS
- Python
- Rust
- MongoDB
- Docker
- VueJS
- Javascript
- Svelte
- Java
- Linux
- NodeJS/Deno
- React Native
- PostgreSQL
- MySQL
- Scrum

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Personal Skills

Mother tongue

Portuguese

Other languages

- CAE (Certificate in Advanced English) exam - grade A

Language	Understanding	Reading	Writing
English	Very Good	Very Good	Good
Spanish	Good	Good	Moderate

Other skills and occupations

- Bass guitar player in "Orquestra Ligeira de Cambra".
- Clarinet player in "Sociedade Artística Banda de Vale de Cambra".
- Member of the board of the "Orquestra Ligeira de Cambra" and "Sociedade Artística Banda de Vale de Cambra".

Awards

2015, *Best High School Student,* Rotary Club de Vale de Cambra
Awarded to the top student in their final year of high school.

2015, *Board of Excellence,* Agrupamento de Escolas do Búzio
Awarded to the top students in their final year of high school and elementary school.

Interests

Professional

Web development, Cyber Security, Software Development

Personal

Bass Guitar, Clarinet, Music, Reading