Filipa Alves dos Santos

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EDUCATION

UNIVERSITY OF MINHO
2017-2022

MSc. IN SOFTWARE ENGINEERING

• Specialized in Web Development and Full-Stack Development.

SCHOOL DOM DIOGO DE SOUSA
2014-2017

HIGH SCHOOL

• Enrolled in the Science and Technology program.

PROJECTS

CLAV: DEVELOPING ELIMINATION STATEMENTS
2022

DISSERTATION

• Full-Stack Web Application built using Vue.js, Node.js, MongoDB and GraphDB.

• Archive management system for portuguese entities to sort and evaluate public information.

• The elimination statements are requests by said public entities to eliminate certain documentation. The entire process of submitting, validating and storing these requests was developed in the context of this thesis.

• Deployed under the CLAV's domain (here) and is currently being used in production by their team.

DataGen: JSON/XML/CSV DATASET GENERATOR
2021

SLATE 2021 SUBMISSION

• Full-Stack Web Application built using Vue.js, Node.js, Strapi, MongoDB and Docker.

• Open-source domain-specific language (DSL) used to generate complex JSON, XML and CSV datasets with the option to automatically supply APIs on them using Strapi.

• Provides an extensive documentation available here.

• Deployed under the University of Minho's domain (here) for public use, currently being used by teachers, students and other members of the scientific community.

FHU - THE PATIENT'S PORTAL
2021

ACADEMIC PROJECT

• Full-Stack Web Application built using Vue.js, Node.js and MongoDB.

• Suggested by the Family Health Unit Manuel Rocha Peixoto, this platform provides forms for appointment and medicine requests, a news publishing section and a content management system for the unit's increasing quantity of files.

• Includes real-time notifications (Socket.io), automatic e-mails, file upload and download and an editable taxonomy tree.

PEER-REVIEWED PUBLICATIONS

DataGen: JSON/XML/CSV DATASET GENERATOR
2021

SLATE 2021 - SYMPOSIUM ON LANGUAGES, APPLICATIONS AND TECHNOLOGIES
• Describes DataGen, a dataset generator featuring a domain-specific language (DSL), and concludes that the alternatives in the market don't provide enough features nor generate APIs.

• Full paper available on the Dagstuhl Research Online Publication Server and the University of Minho Repository.

SKILLS

PROGRAMMING LANGUAGES	*Experienced:* JavaScript | Python *Familiar:* Haskell | C/C++ | Java
MARKUP LANGUAGES	HTML | CSS | XML | TeX
SOFTWARE DEVELOPMENT	Programming Paradigms | GIT | CLI | Design Patterns | UML
FRAMEWORKS & LIBRARIES	Node.js | Vue.js | Vuetify
DATABASE MANAGEMENT SYSTEMS	MongoDB | MySQL | GraphDB
LANGUAGES	*Native:* Portuguese *Fluent:* English *Beginner:* French | Spanish