Vanessa Pereira
Health Informatics Engineer

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i Birth Date : 17/04/1991

☰ COMPETENCES

Programming	Javascript, Python, R, C++
Frameworks	Angular 2+, Bootstrap
Databases	Microsoft SQL Server, MySQL, MariaDB, mongoDB
Development	Eclipse, Visual Studio Code, SVN, GIT (GitHub, GitLab), Camunda, Postman, openEHR, FHIR, HL7, Clinical terminologies and semantics
Middleware	Mirth Connect
Operative Systems	Mac OS, Windows, Linux Ubuntu/Fedora/Mint
Others	LabView, MatLab, GNU Octave, Microsoft Office, Arduino

💼 PROFESSIONAL EXPERIENCE

Present
May 2022

Digital Health Engineer, LUXEMBOURG INSTITUTE OF HEALTH, Luxembourg
> OpenEHR modelling of archetypes, templates for data lake
> FHIR resources profilling
> Data mappings
> Redcap surveys
> Clinical content DB queries (aqls, javascript, EHR views);
> Binding of medical terminology (ICD, SNOMED-CT, LOINC and others);
> Gap analysis in projects and products requirements;
> Requirements collection and analysis, data modelling, business process management (BPM) processes, shaping product vision;
> Data migration and integration
> Data visualization

`OpenEHR` `HL7 FHIR` `HL7v2` `AQL` `ADL` `SNOMED` `ICD` `LOINC` `GIT` `REST API` `XML` `Angular2+` `Typescript/javascript` `Redcap` `Better Platform` `EhrBase` `openEHR platform` `Confluence` `Clickup` `Keycloak` `Postman` `Project Management` `Requirements analysis`

April 2022
September 2017
	Health Informatics Engineer, Better d.o.o./Marand d.o.o., Ljubljana, Slovenia
	> OpenEHR modelling of archetypes, templates and forms along with FHIR specification and adaptation to be used within Pathfinder, Better Portal and respective modules (care plans, allergies, assessments, remote patient monitoring);
	> Clinical content DB queries (aqls, javascript, EHR views);
	> Gap analysis in the company's products requirements;
	> Requirements collection and analysis, data modelling, business process management (BPM) processes, shaping product vision;
	> Protocols specification;
	> Process definition and functional testing;
	> Services integration specification;
	> REST API and Web Services usage and testing;
	> Versioning and management of clinical content;
	> Binding of medical terminology (ICD, SNOMED-CT, LOINC and others);
	> Quality Assurance, platform and company tools testing and improvements suggestion (ADL Designer, Studio, Form Builder, Form Renderer);
	> Software specification development and support:
	  > MEDTRONIC IHU - Cohort studies for colorectal and pancreas cancer using PROMS and CROMS for data collection
	  > DaVita - data modelling for nephrology register to be used in in 10 countries
	  > ACHF - Monitorization of vital signs in patients with acute congestive heart failure for patients in Slovenia (Pathfinder)
	  > EUROTRANSPLANT - EDITH Kidney transplantation used in 5 countries
	  > NHS UK - actively participating on data modelling and building user forms for diverse NHS UK institutions, nursing forms, observations, care plans.
	  > COVID19 data modelling in conjunction with openEHR community
	  > EHR CORE modules - allergies (used in several institutions from United Kingdom and New Zealand) care plans, patient alerts, medical practitioners portal.
	`OpenEHR` `HL7 FHIR` `HL7v2` `AQL` `ADL` `SNOMED` `ICD` `LOINC` `GIT` `REST API` `XML` `Angular2+` `Typescript/javascript` `Think!EHR Platform` `openEHR platform` `Confluence` `Jira` `Camunda BPM` `Keycloak` `Postman` `Project Management` `Requirements analysis`

September 2017 February 2016	**Research Internship - Health Informatics Services, Cintesis, Porto, Portugal** > Granted a Scientific Initiation Scholarship for project ODISSEIA - Oncology disease information system with IPOP (Instituto Português de Oncologia do Porto Francisco Gentil). `Confluence` `Jira` `Project Management` `Requirements analysis`
August 2017 October 2016	**Junior Functional Analyst, HealthySystems, Porto, Portugal** > Survey of processes and definition of requirements for an implementation of Information Systems; > Systematization of processes and requirements using BPM and UML tools such as bizAgi and Visual Paradigm; > Contact with different stakeholders of hospital and medical information systems like functional users (medical doctors, nurses, etc), managers, IT professionals and developers; > Development of a RESTFull Web-Service based on Spring-boot framework (Java) for anonymization of HL7v2 messages using Mirth Connect. `Java` `MariaDB` `MongoDB` `Spring Boot` `Mirth Connect` `Eclipse` `Maven` `BiZagi` `Togaf` `HL7` `HL7 HAPI`

🌐 Languages

Portuguese	● ● ● ● ●
English	● ● ● ● ○
Spanish	● ● ● ○ ○
Polish	● ● ○ ○ ○

➕ Forces

> Autodidact
> Autonomous
> Resilient

🎓 Formation

Sept 2022	Completed course of **Angular 2** - Instituto Superior de Engenharia do Porto (Portugal)
Apr 2022	Completed course of **Comprehensive HL7 FHIR Proficiency Exam Preparation Course** - HL7 International
Dec 2021	Completed course of **FHIR R4 Fundamentals** - HL7 International
Jan 2019	Master's degree, **MSc in Medical Informatics** - Faculdade de Medicina da Universidade do Porto (Portugal)
Jul 2018	Erasmus Plus Internship Programme in **Medical Informatics analysis** - Marand/Better d.o.o. (Slovenia)
Aug 2016	Bachelor's degree, **BSc in Medical Computing and Instrumentation Engineering** - Instituto Superior de Engenharia do Porto (Portugal)
Jul 2016	Erasmus Plus Studies Programme, **Biomedical Engineering** - Politechnika Łódzka (Poland)

💻 Projects

Governance of openEHR based local repository compliant with openEHR Clinical Knowledge Manager   2018

☑ https ://mim-script-openehr.stackblitz.io/   ☑ Presentation CBIS 2018   ☑ Paper at Journal of Medical Informatics
☑ Master Thesis

One of the biggest problems of manually checking archetypes versions on openEHR CKM is that it can be really time consuming and can take several hours to complete, depending on the number of archetypes hosted on a local repository. Herewith this script, is expected to give a quick and reliable archetype verification between the local repositories and the openEHR CKM, in order to make it compliant and updated with the main source to facilitate the managing work of the local clinical knowledge repository owner. The script offers three options : Getting the list of archetypes or list of templates from a local repository or making the comparison between the archetypes in the local repository and the Github openEHR CKM.

Typescript Angular2+ JavaScript Visual Studio Code OpenEHR REST API Postman GitLab GitHub