

PERSONAL INFORMATION



João Costeira Faria Gomes

 Braga (Portugal)

 910199153

 joaocosteirauni123@gmail.com

 <https://www.joaocosteira.com>

 <https://www.linkedin.com/in/jo%C3%A3o-costeira-7513751b7/>

Gender Male | Date of birth 19/01/1996 | Nationality Portuguese

EDUCATION AND TRAINING

09-2019 – 12-2021

Master's Degree in Computer Engineering

Level 7 QRQ

Universidade do Minho – Braga (Portugal)

Profile on – Formal Methods in Software Engineering,
– Cryptography and Security of Information.

Complementary – Scripting in Natural Language Processing,
– Web Application Development,
– Bio-Informatics Applications.

Master's Thesis Study of Nineteenth Century Orphanages Archives from Fafe

09-2015 – 09-2019

Degree in Software Engineering

Level 6 QRQ

Universidade do Minho – Braga (Portugal)

09-2012 – 06-2015

Secondary Education in Sciences and Technologies

Level 3 QRQ

Escola Secundária Carlos Amarante – Braga (Portugal)

PROFESSIONAL/COMPLEMENTARY
EDUCATION

06-2022 – 08-2022

Full Stack Web Development Course

Organized by the Department of Computer Science at the University of Helsinki

Course: Online course focused on the development of modern full stack web applications. The course material is available at <https://fullstackopen.com/en/about> and my answers/certificates are available at <https://github.com/joaocosteira/fullstack2022>.

Main Technologies/Topics:

- React.js,
- Node.js and Express,
- Testing: (Jest, Cypress, Supertest),
- Redux and React Router,
- GraphQL and Mongo,
- Typescript.

01-2022 – 06-2022 Continuing The Foundling Wheel Archive

Further development of the Foundling Wheel project, a collaborative project between Universidade do Minho and The Municipal Archive of Fafe.

09-2021 – 04-2022 Assistant Role

While I was further developing the Foundling Wheel project, I provided guidance to fifth year students starting their Master's Thesis in the NLP domain.

Additionally, I did class presentations for Linguist students (second year) at Universidade do Minho, in order to introduce knowledge repositories and ontologies, which is part of their technological class curriculum.

PERSONAL SKILLS

Computer skills

- JavaScript, TypeScript, Python, Haskell, C, Java,
- Node.js, Express, Django Framework,
- React.js, React Redux, React Router, GraphQL,
- Spacy, NLTK, Pronto Ontology, Owlready,
- Alloy, Electrum, SMV, TLA+, Why3, Frama-C, MiniSat, Uppaal,
- SageMath, Scikit-Learn, Scipy, Cryptography, Sonarqube,
- HTML, CSS, SASS, Tailwind CSS, XML, XML Schema, OWL, RDF.

Job-related skills

- Foundling Wheel Archive: <http://www.arquivoexpostos.epl.di.uminho.pt/>
 - * Digital platform supported by a knowledge repository,
 - * I developed the entire web application and processing pipeline while the archivist from the Municipal Archive of Fafe provided the transcripts.
 - * The main component is a processing pipeline composed of a spellchecker, auto-complete system, named entity recognition, relation extraction, entity linking, ontology and reasoner that combined fully automate the processing of each document.
 - * Main Technologies:
 - Python,
 - Django, Bootstrap,
 - Spacy, OwlReady 2, Hermit, Hunspell, FuzzyWuzzy,
- *Spickles*: <https://spickles.vercel.app/>
 - * Movie recommendation phone app,
 - * 9 developers worked on this project and I was part of the recommendation engine development,
 - * This application recommends movies not only for a particular user but also for an arbitrary sized group,
 - * Contains a Tinder style anonymous game to select a movie within a group of users,
 - * Main Technologies:
 - JavaScript, Python,
 - React Native, Django, Node.js,
 - Scikit-learn, Scipy
- Faces <https://faces.costeira.xyz/> art project,
- Formal specification and verification of an Adaptive Exterior Light system for European cars. The model-checking was developed in Alloy and TLA+,
- Development of an ontology and knowledge extraction component from Eighteenth Century testament, written in Portuguese and Mirandês,
- Development of a parser to compress drum machine files.

Digital competences

SELF-ASSESSMENT				
Information Processing	Content creation	Communication	Problem solving	Safety
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Mother tongue Portuguese

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	A2	A2	A1	A1	A2

Communication skills

- Good communication skills.
- Good ability of written communication.
- Oral presentation experience.
- Strong sense of responsibility.

Organisational / managerial skills

- Good capacity for coordination and leadership.
- Good organizational skills, coordination and autonomy acquired during academic training.
- Good capacity of teamwork.

Driving licence B