



Sara Maenza

Front & Back End Developer

Passionate about technology and programming, I have experience in developing user-oriented web applications, with a particular interest in human-computer interaction and usability. I have developed solid technical and design skills and am known for my precision, reliability and results-oriented approach. I am looking for a dynamic environment in which to grow professionally and make a concrete contribution.

CONTACTS

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[Linkedin](#)

[Portfolio](#)

18th May 1998

Driving licence B - Car owner

Pisa - Available for travel

TECHNICAL SKILLS

- Languages: JavaScript, HTML5, CSS3, Python
- Framework/Libraries: React, Node.js, Bootstrap, Tailwind CSS
- Front-end skills: Responsive design, cross-browser compatibility, REST API integration, status management
- Database: MongoDB, MySQL
- Tools: Git, Figma, VS Code
- UI/UX: Design systems, User-centred design, Wireframing and prototyping, Usability testing

PROFESSIONAL EXPERIENCE

03/2024 - 11/2025

Full Stack Developer

Istituto di Scienza e Tecnologie dell' Informazione "A. Faedo" - CNR Pisa
Design, development and testing of a web application (HTML, CSS, JavaScript, JQuery Python, Node.js) for the creation and management of trigger-action automations in smart environments, with problem detection and resolution support features. Integration with NoSQL databases (MongoDB) and REST APIs for interaction with external services and data exchange.

06/2023 - 11/2023

Full Stack Developer

In collaborazione con l'Istituto di Scienza e Tecnologie dell' Informazione "A. Faedo" - CNR Pisa

Development of a web application (HTML5, CSS3, JavaScript, JQuery) to detect conflicts and unexpected behaviour in trigger-action automations and support their resolution.

02/2023 - 04/2023

Full Stack Developer Intern

Istituto di Scienza e Tecnologie dell' Informazione "A. Faedo" - CNR Pisa

Paid curricular internship (500 hours) dedicated to refactoring a web application in the IoT field, proposing a new interface using Figma, and defining new features.

10/2020 - 06/2021

Front-End Developer Intern

Istituto di Linguistica Computazionale "Antonio Zampolli" - CNR Pisa

Curricular internship (150 hours) for the development of EVT 3 (Edition Visualisation Technology) open source software, dedicated to the visualisation of digital editions, using the Angular framework.

TRANSVERSAL SKILLS

- Effective communication and active listening
- Organisation and results orientation
- Flexibility and overview

LANGUAGE SKILLS

- **Italian** - Native speaker
- **English** - B2
- **French** - Basic

PUBLICATIONS

- Explaining Automations in lot Settings | [IEEE Access](#)
- Explaining Problems in Daily Automations with ExplainTAP | [Springer LNCS - IS-EUD 2025](#)
- An EUD Approach to Creating Feasible and Energy-Saving Automations for Smart Homes | [Springer LNCS - IS-EUD 2025](#)
- Context-dependent Explainable Daily Automations | [Proceedings IUI-WS 2025](#)
- What People Think About Green Smart Homes | [CoPDA 2024](#)
- A Design Space for Adaptive Explainable Daily Automations | [IUI-WS 2024](#)
- Human Control in Green Smart Homes | [ERCIM NEWS vol. 138](#)
- An Approach to Explainable Automations in Daily Environments | [AHFE Open Access - IHSI 2024](#)
- There and Back Again: What to Expect in the Next EVT Version | [AIUCD 2022](#)

EDUCATION AND TRAINING

09/2021 - 11/2023

Master's Degree in Digital Humanities

University of Pisa

Final grade 110 with honours/110

Focus on the design and programming of digital products, from conception to implementation, in interactive and multimedia environments.

10/2017 - 07/2021

Bachelor's Degree in Digital Humanities

University of Pisa

Final grade 110/110

Multidisciplinary curriculum integrating computer science and humanities, with a focus on web development, programming, databases, digital graphics and communication.

Thesis: Development of a feature for comparing different manuscripts in EVT 3

07/2017

Diploma from Technical Economic Institute, specialising in 'Business Information Systems'

ITC Pacinotti (PI)

COURSES

12/2025

Learn Tailwind CSS

Scrimba

02/2021

The complete HTML5 course: from beginning to expert

Creative Online School & Udemy