Francesca Madeddu

UX Engineer

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I am a full stack developer with a strong background in human computer interaction.
I consider curiosity, autonomy and the ability to learn quickly my strengths.

Publications

2015   **EGUK Computer Graphics & Visual Computing**, *F. Madeddu, D. Archambault and R. Borgo*, Extended Abstract on User-defined gestures for Augmented Reality with Smart Phones.
UCL, London

Awards

2015   **Best Performance in the Advanced MSc**, *Swansea University*, Wales.

Work Experience

2018-Present   **UX Engineer**, FLEXYS, Bristol.
Leading the front-end development of bespoke web applications for intelligent debt resolution.

- Duties: web application development following an agile methodology (scrum): requisites gathering, implementation of new features from design (prototypes, wireframes) and research to coding; bug fixing; software testing (unit, e2e); usability testing; redaction of design guidelines.
- Technologies: HTML/(S)CSS, JavaScript, jQuery, TypeScript, Angular 2.X, Jasmine, Protractor, RESTful API, Git.

2016-2018   **Software Engineer**, CAFEX COMMUNICATION, Cardiff.
Developing web application based on WebRTC technologies.

- Duties: full-stack web application development and testing (unit, e2e); usability testing; UX design.
- Technologies: Java, HTML/CSS, JavaScript, jQuery, JSP, JSF, Angular 2, SQL, Gradle, Git.

2015   **MSc Thesis Intern**, LEADIN UK, Swansea.
Developing an augmented reality mobile application for museums.

- Duties: mobile application development, usability testing, qualitative and quantitative research, field studies, lab studies, prototyping.
- Technologies: Unity3D, C#.

2013–2014   **System Integrator Consultant**, ABINSULA SRL, Turin.
Integrating infotainment embedded systems for the automotive sector.

- Duties: creation of a framework for the automatisation of the integration process; quality and consistency check on the integrated code; integration plan management.
- Technologies: Fado, Linux, C, Bash, Python, Git.

2013–2014	**Usability Tester**, ABINSULA SRL, Turin.

Evaluating infotainment systems HMI in the automotive sector.

- o Duties: usability evaluation of HMI; implementation of new design guidelines.

2013	**Web Developer**, RA-COMPUTER, Milan.

Developing web applications for financial services with a model driven development approach.

- o Duties: requisite gathering interfacing with function analyst; development of new functionalities; bug fixing.
- o Technologies: Java, WebML, HTML/CSS, JavaScript, jQuery, SQL, SVN.

2012–2013	**BSc Thesis Intern**, RA-COMPUTER, Milan.

Developing an automated framework for the modernisation of legacy systems.

Education

2014-2015 **MSc Advanced Computer Science with HCI specialization**, *Distinction, Swansea University*, Wales.

Thesis, *Mobile Egypt: Investigating Mobile Augmented Reality in Museums*, Design, development and evaluation of a fully working augmented reality game for smartphones in museums..

2009-1012 **BSc Digital Communication**, *First Class Hons, Universita' degli Studi di Milano*, Italy.

Thesis, *Modernization of Legacy Systems*, Development of a framework for an automated modernisation of legacy financial systems.

IT skills

Advanced	Java, TypeScript, JavaScript, HTML/(S)CSS, JQuery, Boostrap, Web API, RESTfull API, GIT, Balsamiq.
Intermediate	Bash scripting, Android, Unity3D (Vuforia), PHP, SQL, LaTeX, SVN, Arduino.
Basic	Adobe suit (Illustrator, Photoshop, Axure).

HCI skills

Advanced	Usability testing, heuristic evaluation, cognitive walkthrough, interviews, questionnaires, observations, quantitative/qualitative analysis.
Intermediate	Scenarios, personas, prototyping.

Languages

Italian	**Mothertongue**	
English	**Fluent**	*7.0 SWELT*

Interests

- Running, Swimming, Tennis, Sailing
- Photography
- Piano, Live Music
- Travelling