

Susanna Ardigò

Full Stack Software and Data Engineer



www.susannaardigo.com



SusyPinkBash



ardigosusanna@gmail.com

EDUCATION

MASTER OF SCIENCE IN SOFTWARE AND DATA ENGINEERING | 2019 - 2021

Università della Svizzera Italiana | Lugano, Switzerland

Master Thesis: 'Software and Data Cities: Visualizing Information Systems as Evolving 3D Cities'. I worked on a tool to visualize information systems and their evolution through the metaphor of the city.

BACHELOR OF SCIENCE IN INFORMATICS | 2015 - 2019

Università della Svizzera Italiana | Lugano, Switzerland

Bachelor Thesis: 'Design of tools to support young users in the creation of narratives for videogames'. I took part in a research with middle school students creating experiments and analyzing the results.

EXPERIENCE

UNIVERSITÀ DELLA SVIZZERA ITALIANA | GRADUATE RESEARCHER

Sep 2021 - Aug 2022 | Lugano, Switzerland

I worked on the Visualization of Software (through the city metaphor), Files containing data (JSON, XML, CSV), and I explored Virtual reality.

I have been a Teaching Assistant in the courses: Software Atelier 3: The Web, S&DE Atelier: Design 101, S&DE Atelier: Visual Analytics.

INSTITUTE OF COMPUTATIONAL SCIENCE | UNDERGRADUATE RESEARCHER

Jun 2018 - Sep 2018 | Lugano, Switzerland

I was an intern in the research group of Professor Rolf Krause. I worked on the Software Utopia: a High-Performance C++ parallel computing library to solve non-linear high-dimensional problems.

SOFISTAR SAGL | SOFTWARE DEVELOPER INTERN

Sep 2017 - Dec 2017 | Lugano, Switzerland

I created a website for a new company that was about to be founded. I used Drupal 8 and created a custom theme.

SELECTED PROJECTS

METRICITY

Java, Typescript, HTML, CSS | Spring, Vue.js, Babylon.js, Bootstrap

A tool that analyzes a git repository to visualize the evolution of an information system through the city metaphor. The city contains the code buildings, data files cylinders, binary hemispheres. The sky represent the database. Each interaction is a line connecting the class that accesses the table.

SOFTWARE ANALYTICS

Java, JavaScript, HTML, CSS | Spring, React, Bootstrap

A tool that analyzes the history of a git repository, and visualizes the quality it in the form a timeline-graph. The visualization shows commits that induced a bug, that fixed a bug or both. We predict which bugs are inducing commits.

SKILLS

PROGRAMMING

Proficient:

C, Java, JavaScript, LaTeX, MongoDB, Python, SQL, Typescript

Experienced:

C++, CSS, Elasticsearch, HTML, Matlab, Scala

Familiar:

Assembly, Kotlin, Neo4J, PHP, R, Smalltalk, Spark

LIBRARIES

Babylon.js, Bokeh, Matplotlib, NumPy, Pandas, Seaborn, Scikit-learn

FRAMEWORKS

Bootstrap, Django, Express, Node.js, Spring, Vue.js, Webpack

TOOLS/PLATFORMS

Conda, Docker, Git, GitHub, GitLab, Gradle, Kibana, Maven, SonarQube

PUBLICATIONS

M3TRICITY: VISUALIZING EVOLVING SOFTWARE & DATA CITIES

44TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2022)

VISUALIZING DATA IN SOFTWARE CITIES

9TH IEEE WORKING CONFERENCE ON SOFTWARE VISUALIZATION (VISSOFT 2021)