

Sonia Nicoletti

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EDUCATION

University of Bologna <i>Master's Degree in Computer Science</i>	Bologna, Italy Sep 2022 – Present
• National Taiwan University <i>Study Abroad Program</i>	Taipei, Taiwan Aug 2023 – Dec 2023
• Drexel University <i>Study Abroad Program</i>	Philadelphia, USA Sep 2022 – Dec 2022
University of Bologna <i>Bachelor's Degree in Computer Science for Management</i>	Bologna, Italy Sep 2019 – Jul 2022
• Final Grade: 110/110 cum laude (First Class Honours)	
• Thesis: “Emerging business models in Web 3.0”	

SELECTED PROJECTS

LLMs and Essence: Chatbot Development for Software Engineering Education <i>Master thesis</i>	Present
• Developed an LLM-powered chatbot using a RAG system to provide tailored answers about the Essence standard.	
• Performed several tests to evaluate the quality of the responses by adjusting various system components.	
Exploring Public Discourse on AI Risks <i>Social Media & Social Network Analysis individual project</i>	Jan 2024
• Utilized YouTube API to collect comments from AI-related videos published between 2020 and 2023.	
• Applied sentiment analysis using BERT, topic modelling, and dictionary-based text analysis to assess public opinions on AI risks.	
Customer segmentation analysis for AI-Driven Healthcare Applications <i>Business Intelligence group project</i>	Jul 2024
• Collected survey responses on the use of a hypothetical medical chatbot designed to offer health advice.	
• Utilized PCA and hierarchical clustering techniques to form clusters that reveal varying expectations and needs within the consumer base.	

More academic projects can be found on my website: sonianicoletti.github.io

WORKING EXPERIENCE

Cooki srl <i>Full-stack web developer intern</i>	Bologna, Italy Jan 2022 – Feb 2022
• Improved the database structure (ER model) of the web application resulting in faster queries of user tables.	
• Developed a new JavaScript front-end feature in the web app (generating food labels based on database entries).	
• Conducted analysis of requirements and designed pages of a new mobile app based on existing features of the company's web app using Figma .	
Agenda Digitale dell'Emilia-Romagna <i>Digital Tutor</i>	Bologna, Italy Dec 2016 – Feb 2017
• Tutored participants of the digitization project “Pane e Internet” which included minorities at risk of being digitally excluded, increasing their digital literacy.	
• Encouraged the development of technical skills, assisted and guided participants through the course.	

HONORS AND AWARDS

The Cornell, Maryland, Max Planck Pre-doctoral Research School

2023

Program attendee

- Selected as one of the ~90 students to attend the Cornell, Maryland, Max Planck Pre-doctoral Research Summer School.

UNIBO Study Award for Computer Science

2023

Scholarship recipient

- Awarded as the best student in the Computer Science master's program for 2023, based on grades.

Coop Reno Scholarship

2019-2023

Scholarship recipient

- Selected as a top student among the Coop Reno cooperative.

SKILLS

Front-end: HTML/CSS, JavaScript (Vue, Express), Kotlin (Android)

Back-end: Java, C++ (OpenGL), SQL (MySQL, Postgres), Firebase, MongoDB, PHP

Data science and AI/ML: Python (PyTorch), R, WEKA, Gephi

Developer Tools: Git, JUnit, Figma, Balsamiq, Jira, Agile Methodology (Scrum)

Languages: Italian (native), English (C1), French (C1), Chinese (A2).