Sonia Nicoletti

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EDUCATION

University of Bologna

Master's Degree in Computer Science

- Final Grade: 110/110 cum laude (First Class Honours)
- Thesis: "LLMs and Essence: Developing a Chatbot to Support Software Engineering"

National Taiwan University

Study Abroad Program

Drexel University Study Abroad Program

University of Bologna

Bachelor's Degree in Computer Science for Management

- Final Grade: 110/110 cum laude (First Class Honours)
- Thesis: "Emerging business models in Web 3.0"

WORKING EXPERIENCE

Cooki srl

Full-stack web developer intern

- 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 Digital Tutor		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 thro	ugh the course.

HONORS AND AWARDS

 The Cornell, Maryland, Max Planck Pre-doctoral Research School Program attendee Selected as one of the ~90 students to attend the Cornell, Maryland, Max Planck Pre-doctoral Research Summer School. 	2023
 UNIBO Study Award for Computer Science Scholarship recipient Awarded as the best student in the Computer Science master's program for 2023, based on grades. 	2023
 Coop Reno Scholarship Scholarship recipient Selected as a top student among the Coop Reno cooperative. 	2019-2023

Bologna, Italy Sep 2022 - Dec 2023

Taipei, Taiwan Aug 2023 - Dec 2023

Philadelphia, USA Sep 2022 – Dec 2022

Bologna, Italy Sep 2019 - Jul 2022

Bologna, Italy

Jan 2022 – Feb 2022

SELECTED PROJECTS

LLMs and Essence: Chatbot Development for Software Engineering Education Master thesis	Dec 2024	
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 Al Risks Social Media & Social Network Analysis individual project Utilized YouTube API to collected comments from AI-related videos published between Applied sentiment analysis using BERT, topic modelling, and dictionary-based text analy opinions on AI risks. 		
Customer segmentation analysis for AI-Driven Healthcare Applications Business Intelligence group project	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

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 (C2), French (C1), Chinese (A2)