

# NITHYA SAMADHI LOKUGE

**Website:** <https://nithyalokuge.com> | **LinkedIn:** <https://www.linkedin.com/in/nithyalokuge/>

I am an enthusiastic and detail-oriented postgraduate student with a strong focus on web and mobile app development. Designing and developing user-centric, accessible interfaces from the ground up motivates me. Through hands-on projects, I have gained experience in both front-end and back-end technologies. I am eager to continue learning and advancing my skills while contributing creativity, curiosity, and a collaborative mindset in a professional environment.

## EDUCATION

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### **Master Course: Interactive Digital Media**

2024 - Current

Trinity College Dublin - Dublin, Ireland

- **Dissertation:** “Between Pixels and Personae: The Virtual Influencers Phenomenon”  
*Dissertation description:* This study explores how virtual influencers construct authenticity and exert influence, revealing how they reshape identity, marketing, and audience perception.  
*Supervisor:* Dr. Radek Przedpelski
- **Relevant coursework:** Authoring for Digital Media; Programming for Digital Media; Visual Computing and Design; Audio, Video & Sensor Technologies; Contextual Media.
- **Key projects:**
  - **MUSA (MUSEums for All):** Developed a mobile-first web app aimed at Deaf users, featuring ISL (Irish Sign Language) interpretation and interactive games to enhance museum experiences. This ongoing project is done in collaboration with The Hunt Museum, Limerick, Ireland. (HTML, CSS, Bootstrap, JavaScript, Node.js, EJS, MySQL)
  - **Cultura:** Built a full-stack website for undiscovered artists to showcase their work and connect with others. (HTML, CSS, Bootstrap, JavaScript, Node.js, EJS, MySQL)
  - **Westland Square Building:** Designed and developed a responsive, accessible website for the Westland Square Building at Trinity College Dublin. (HTML, CSS, Bootstrap, JavaScript)

### **Bachelor Degree: Sicurezza dei Sistemi e delle Reti Informatiche** **(“Computer Systems and Networks Security”)**

2019 - 2024

Università degli Studi di Milano - Via Celoria, 18, 20133, Milano (MI), Italy

- **Results:** 99/110
- **Bachelor Degree Thesis:** “Analisi valutativa e aspetti di sicurezza della piattaforma INTO-CPS per Digital Twin”  
 (“Valuation analysis and security aspects of the INTO-CPS platform for Digital Twin”)  
*Thesis description:* This thesis evaluates the suitability of INTO-CPS as a Digital Twin (DT) platform by analyzing how its toolchain meets common DT requirements and investigating its potential to simulate security threats in Cyber-Physical Systems (CPSs). Additionally, the research assesses the overall safety and robustness of the Digital Twin as a Service (DTaaS) environment.  
*Supervisor:* University Professor Elvinia Maria Riccobene  
*Co-supervisor:* University Professor Chiara Braghin
- **Relevant coursework:** Computer Programming; Web and Mobile Programming; Computer Networks; Systems and Networks Security; Secure Software Design; Operating Systems; Algorithms and Data Structures; Databases; Computer Architecture; Cryptography; Biometric Systems; New Media Sociology; Economical, Ethical, Social, and Legal Aspects of IT; Computer Forensics; Probability and Mathematical Statistics; Continuous Mathematics; Discrete Mathematics.
- **Key projects:**
  - **SNM (Social Network Music):** Created a full-stack web application that allows users to register, create, and manage sharable music playlists using the Spotify API. (HTML, CSS, Bootstrap, JavaScript, Node.js, MongoDB)

## LANGUAGES

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- **Italian:** Native
- **English:** C1 (IELTS Academic – Cambridge University Press & Assessment – 16 Mar 2024)

## TECHNICAL SKILLS

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- **Front-end:** HTML, CSS, JavaScript, Bootstrap, Web Content Accessibility Guidelines (WCAG)
- **Back-end:** Node.js
- **Databases:** MongoDB, MySQL
- **Design & Multimedia:** Autodesk 3ds Max, Adobe Premiere Pro
- **Development tools:** Visual Studio Code, Git, Figma
- **Other tools & languages:** Processing

## CERTIFICATIONS

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### ICDL Modules - The Digital Skills Standard:

- **IT-Security / Cyber Security** (AICA - 12 April 2017)
- **Presentation** (AICA - 12 April 2017)
- **Online Essentials** (AICA - 15 March 2017)
- **Spreadsheets** (AICA - 15 February 2017)

## SOFT SKILLS

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- **Team collaboration:**  
strengthened through various group projects, including the development of websites for *MUSA*, *Cultura* and *Westland Square Building*.
- **Effective communication:**  
developed through frequent oral assessments in the Italian education system and further refined during the Master's programme through project reviews, presentations, and regular interaction with colleagues and lecturers.
- **Time management:**  
enhanced during a particularly demanding academic period (February - May 2025) while simultaneously working on the dissertation, group projects, and multiple individual assignments.
- **Flexibility and adaptability:**  
demonstrated in managing last-minute changes and proactively stepping into new contexts.
- **Reliability:**  
a collaborative and constructive attitude, with a willingness to accommodate others' needs and support the team when challenges arise.
- **Autonomy:**  
exercised in handling individual assignments and specific sections of group projects independently, meeting deadlines and priorities with a strong focus on the quality of the final product.