



# Dario Cantella

08-10-1997

Master's in Mathematical Engineering

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🔗 [cantella.dev](#)

## Skills

Python



Docker



Linux



Azure



Git



Java



C / C++



LaTeX



MATLAB

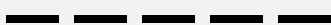


## Languages

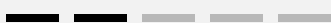
Italian (Native)



English



Spanish



## Summary

I am a graduate Mathematical Engineer with a strong interest in both research and pursuing a career as a Cloud/DevOps Engineer. Throughout my Bachelor's degree, I have developed solid programming skills. I am a disciplined and quick learner, highly motivated to explore job opportunities worldwide. Currently, I am actively working on implementing an approximation algorithm for the Service Chain Embedding problem as part of a paper that my university research team is working on. Additionally, I am gaining proficiency in using Azure cloud solutions.

## Education

### Cisco Networking Academy

May 2023 - Sep 2023

*Università degli studi di Napoli "Federico II"*

**Project Work:** build an application that leverages Cisco edge cloud infrastructure to control sensors and actuators in a smart building to improve efficiency and sustainability

### MSc in Mathematical Engineering

Apr 2020 - Jul 2023

*Università degli studi di Napoli "Federico II"*

**Thesis in Information Theory:** IoT-Cloud Networks: an approximation algorithm for the Service Chain Embedding problem.

The thesis addresses the design and the implementation of a Python algorithm that efficiently allocates computation and communication resources in an Edge Cloud Network to distribute real-time services, leveraging a Linear Programming model based on the Multi-Commodity Flow Problem

### BSc in Computer Engineering

Sep 2016 - Mar 2020

*Università degli studi di Napoli "Federico II"*

**Thesis in Real-Time Operating Systems:** Virtualization Platforms and separation kernels for mixed criticality systems: XtratuM (in Italian)

The thesis concerns the study of solutions for mixed criticality real-time systems and deals with XtratuM as a practical case.

## Certifications

**Cambridge English Qualification: C2 (CPE)**

**ID: C2648021**

*University of Cambridge*

## Other Skills

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Problem Solving  
Teamwork  
Research  
Mathematical Modeling  
Parallel Programming  
Signals Transmission

## Projects

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### Algorithm for the Service Chain Embedding Problem

Apr 2023

#### *Master Thesis Research*

I implemented an approximation algorithm that aims to find a near-optimal solution for the MILP Service Distribution Problem, that equates to find an efficient use of Edge Cloud resources to distribute Real-Time services.

**Skills:** Operations Research, Linear Programming, Object-Oriented Programming

**Technologies:** Python, NetworkX, PuLP

### Edge Monitoring for smart buildings

Jul 2023 - Sep 2023

#### *Cisco Academy Project Work*

I am building a complete solution to control and monitor IoT devices scattered through a university campus to ensure human safety and improve the efficiency and sustainability, leveraging Cisco Edge Cloud Infrastructure.

**Technologies:** Python Django, MQTT, Docker/Docker-Compose

### Portfolio Website

Jun 2023

#### *<https://cantella.dev/>*

I have developed an aesthetically pleasing and user-friendly portfolio website that demonstrates my passion for clean design and functionality. Through this project, I have honed my skills in front-end development, back-end implementation, and database management, resulting in a compelling digital platform that effectively highlights my achievements and abilities.

**Technologies:** Docker/Docker-Compose, Python Django, Cloudflare SSL Tunnel, Wordpress

## Personal Interests

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Running and fitness in general