





# Ivan Capasso

## Junior Software Engineer

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Strong skills in C#, Python, PHP, Javascript and Java through experience building advanced testing method, retroserver of an online game, handwritten digit recognizer and more.

## Education

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### Master in Computer Science

University of Naples Federico II

September 2021 - October 2023  
Final mark: 91/110

### Bachelor in Computer Science

University of Naples Federico II

September 2017 - April 2021  
Final mark: 98/110

## Work Experience

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### HorAlzon - Full-Stack Web Developer

January 2022 - January 2023

Naples, Italy

- Mapped customer journeys & delivered sprint plans using agile method as part of website migration project of a management for beauty centers with 50+ daily user
- Designed the UI and gained the metrics of the user profile for a social analytics platform covering Facebook, Google, Instagram and TikTok.
- Amplified accounting forms of a CRM/ERP and generated sales chart for the products

## Technical Projects

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### Morlify

<https://github.com/Noctino52/Morlify>

- A Java environment of Metamorphic Testing for web testing with Selenium
- Generate N follow-up test cases with similar input to an initial end-to-end test case, all of which test the same functionality.
- The rules used to create these follow-up test cases are written by the user using (REGEX).

### Enne

<https://www.enneonline.org> (Italian IP required, use VPN)

- Co-Founder of this retroserver of Nostale (An 2006 MMORPG)
- I enhanced core server (C#) functions and outplaced default features with ideas gathered from the community, creating and managing this way a consolidated italian server with 50+ daily player
- Identifying issues in the game by creating views (SQL Server) and implementing data analytics jobs to determine if players are playing fairly and following the intended gameplay design.

### RPropNetBuilder

<https://github.com/Noctino52/RPropNetBuilder>

- Implemented from scratch a Python Multilayer Neural Network, specialized for a 10-class classification problem (identifying handwritten digits from 0 to 9) using the MNIST dataset.
- Implemented the RProp weight update algorithm to optimize neural network training process, reducing convergence time by 40% and improving model accuracy by 15% compared to SGD

## Soft Skills & Info

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- **Communication & Open-Mindedness:** Participate in an improvisational theater course
- **Teamwork & Leadership:** Managing every team of degree exam project
- **Empathy:** Moderation/Customer service for online web community
- **Time Management:** Speedrunning

### Language:

English (B2)  
Italian (Native)

Date of birth: 15/12/1998  
Male

Reside in Naples (Italy), but  
**available for immediate relocation  
for work on-site.**