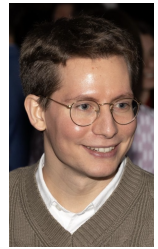


# Rocco Lo Conte

**Contacts:** +39 3662359991, [Email](#), [LinkedIn](#), [GitHub](#)

**Lives in:** Avellino, Italy (**Open to Relocate:** Yes, **Nationality:** Italian)

**Languages:** Italian (Mother Tongue), English (CEFR: C1)



**Years of Experience:** 1.5

**Programming Languages:** Python, JavaScript, C#, SQL, Java, C

**Tools:** PyTorch, .NET, Azure, Docker, Jenkins, Git

## EXPERIENCE

### Software Engineer (AI/ML Focus)

04/24 – Present

Reply, WM Rome Team

Remote

- **Context:** Fast-paced startup environment (15 people) requiring full-stack ownership: design, development, client communication, costs estimation and production support across multiple concurrent projects.
- **Impact:** Delivered 8 of 12 concurrent client projects (67% of company portfolio) by collaborating in Agile teams of 3 members each, contributing to €1M in secured contracts.
- **AI Development:** Co-leading end-to-end development of an AI-powered call screening system processing 3K monthly interactions as one of two AI/ML specialists in the company, reducing human screening costs by automating initial financial eligibility assessments through fine-tuned LLM classification.
- **Production Engineering:** Implemented comprehensive logging systems and resolved critical production issues through systematic debugging.
- **RAG:** Implemented a RAG system using Azure OpenAI (GPT-4o) and Azure AI Search, reducing hallucination rate by 80% through systematic prompt optimization, validated across 25 test cases with human evaluation.
- **ETL:** Built ETL pipelines processing 5 enterprise databases containing millions of records.
- **DevOps:** Automated deployment of 5 resources through CI/CD pipelines developed with Jenkins on Azure.

### AI Evaluator (Freelance, Weekends Only)

03/25 – Present

Outlier AI

Remote

- Conducting part-time AI evaluation tasks (RLHF on coding prompts) on weekends when available.

### Software Engineer Intern

02/19 – 05/19

University of the Bundeswehr Munich

Munich, Germany

- Built InputGraph, a Java-based interactive interface for the [Grappa project](#), visualizing parsed data to support analysis in [ParVis](#), a parser behavior tool.

## PROJECTS

### [Online Shortest Path with Machine Learned Advice](#) (Master's Thesis)

2024

- Created an AI algorithm in Python under the supervision of Prof. [Flavio Chierichetti](#) that intelligently combines multiple navigation services (TomTom, Google Maps) to provide optimal real-time route recommendations. Tested across 75 locations between Rome and Paris, performing nearly as well (up to 10%) as having perfect knowledge of which service would be fastest for each specific route.

### [Pre-trained a language model](#)

2025

- Pre-trained a 6-layer OLMO-2-inspired transformer model on the Shakespeare dataset with a custom BPE tokenizer by using PyTorch and personal GPU (MPS), achieving 2.77 perplexity.

### [Fine-tuned a language model](#)

2025

- Fine-tuned GPT2 by using LoRA and personal GPU (MPS) on 3K samples of the Databricks Dolly-15k, achieving a 3% improvement on ROGUE/BLEU scores.

### [Trained a vision model](#)

2025

- Trained a ViT on the MNIST dataset by using PyTorch and personal GPU (MPS), achieving 97% test accuracy.

### [Obtain routing data from 8 REST APIs in Python](#)

2024

## EDUCATION

### Sapienza University of Rome

09/20 – 01/24

MSc in Computer Science, *Language:* English, *Grade:* 107/110, *CGPA:* 27.5/30.0

Rome, Italy

### University of Salerno

09/16 – 05/20

BSc in Computer Science, *Language:* Italian, *Grade:* 94/110, *CGPA:* 24.1/30.0

Salerno, Italy