Andrea Moschetto

Data Science Student and Software Engineer
Catania, Sicily, Italy

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SUMMARY

Curious and motivated Computer Science graduate, passionate about artificial intelligence, algorithms, systems design and software engineering. I enjoy connecting theoretical research with practical applications.
Currently pursuing a Master's degree in Computer Science at the University of Catania, I am eager to explore adjacent areas such as visual understanding and model interpretability. Always looking for ways to learn, build and collaborate with others who share a drive for innovation.

PUBLICATIONS

2025   Andrea Moschetto, Lemuel Puglisi, Alec Sargood, Pierluigi Dell'Acqua, Francesco Guarnera, Sebastiano Battiato and Daniele Ravì. Benchmarking GANs, Diffusion Models, and Flow Matching for T1w-to-T2w MRI Translation. CVGMMI Workshop (ICIAP 2025).

2024   Simone Faro, Francesco Pio Marino, and Andrea Moschetto. Beyond Horspool: A Comparative Analysis in Sampled Matching. In *Prague Stringology Conference 2024*, 16 (2024).

2024   Simone Faro, Francesco Pio Marino, Andrea Moschetto, Arianna Pavone, and Antonio Scardace. The Great Textual Hoax: Boosting Sampled String Matching with Fake Samples. In 12th International Conference on Fun with Algorithms (FUN 2024). LIPIcs, Volume 291, pp. 13:1-13:17, Schloss Dagstuhl – Leibniz-Zentrum für Informatik (2024)

WORK EXPERIENCE

Computer Science Tutor   Oct 2024 – Jul 2025
University of Catania   *Catania, Sicily, Italy*

- Tutoring activities for the course *Fondamenti di Informatica*
- Topics: Computational Models, Formal Languages, Functional Programming, Logic

Software Engineer and Developer   Jan 2023 – Aug 2023
Herakel   *Remote – Catania, Sicily, Italy*

- Developed distributed systems and microservices using Python
- Designed event-driven architectures with Kafka
- Implemented REST APIs using FastAPI and integrated with external services
- Wrote integration and unit tests to ensure software reliability

EDUCATION

M.Sc. in Computer Science, University of Catania   Oct 2023 – Present
Catania, Sicily, Italy

B.Sc. in Computer Science, University of Catania   Oct 2018 – Mar 2024
Catania, Sicily, Italy
Grade: 110/110 cum Laude
Thesis: Efficient Online String Matching Based on Character Distance Sampling

Archimede Technical Institute   Sep 2013 – Jul 2018
Catania, Sicily, Italy   *Diploma in Technical Computer Science*

Awards

- 2018/19 Academic Scholarship, ERSU

- 2019/20 Academic Scholarship, ERSU

- 2020/21 Academic Scholarship, ERSU

Interests and Studies

- Machine Learning, Deep Learning, AI Safety, Explainability, Model Evaluation

- Computer Vision, Video Understanding, Self-Supervised Learning

- Large Scale Software Engineering, Distributed Systems, Design Patterns

- Algorithms, String Matching, Optimization, Computational Complexity

- Game Development, Unity, Web Game Engines

Technical Skills

Languages	:	C, C++, C#, Java, JavaScript, Typescript, Python, PHP
AI / ML	:	PyTorch, Lightning, Pandas, NumPy, Scikit-learn, Matplotlib, OpenCV
WebDev	:	FastAPI, Alembic, PyTest, Laravel, Express, Node.js, HTML, CSS, SQL, Apache
GameDev	:	Unity
Dev Ops	:	Docker, Docker-Compose, Kafka, Kubernetes, GitHub Actions
Dev Tools	:	VS Code, Git, GitLab, GitHub

Andrea Moschetto   Nov 2025