

EMANUELE ELIE DEBACH

+44 7848795651 | London, UK | emanuele.debach@gmail.com
www.linkedin.com/in/emanuele-elie-debach-89120b162

PROFESSIONAL SUMMARY

Motivated MSc student in Computing (AI and ML) at Imperial College London, with a BSc in Computer Engineering from La Sapienza University. I have a year of experience as a Software engineer at NTT Data. Passionate about artificial intelligence and machine learning, I leverage analytical and problem-solving abilities to contribute to impactful projects.

EDUCATION

Master of Science in Computing (AI and Machine Learning) Sep 2024 - Sep 2025
Imperial College London - London, UK

- Relevant modules: NLP, Deep Learning, Quantum Computing, Robot Learning, Reinforcement Learning

Bachelor in Computer Engineering - Final Grade: 110/110 Oct 2020 - Oct 2023
Sapienza Università di Roma - Rome, Italy

- Relevant Modules: Computing systems, Physics, Computer Networks, Databases

SKILLS

Programming Languages Python, C#, Java, C++, Typescript, SQL
Frameworks Angular, .NET, Pytorch
Generic Skills Full-Stack Development, Object Oriented Programming, ML Algorithms, LaTeX
Version Control Git
Languages Italian (Native), English (Advanced C1), Hebrew (Conversational)

EXPERIENCE

Software Engineer, NTT Data - Rome, Italy Nov 2023 - Sep 2024

- Developed a financial risk and control application as part of a four-member team, contributing to both backend logic and frontend interface.
- Promoted from Intern to Junior Software Engineer within three months, subsequently entrusted with supervising a new intern and providing technical guidance.
- Utilized a modern tech stack including Python, Angular, .NET (C#), SQL, GitLab, Visual Studio, and DBeaver.

PROJECTS AND CERTIFICATIONS

Forecasting urban mobility patterns using spatio-temporal GNNs March 2025 - Ongoing

- Model and train a ST-GNN model on the public user mobility traces from the city of Shanghai.
- Develop reinforcement learning algorithm to decide on the time-varying provisioning of resources locally to a region.
- Tools and languages employed: Python, Pytorch, GitLab, LaTeX.

Scholarnet - Bachelor's Final project May 2023 - Sep 2023

- Web application structured as a forum for students and teachers to discuss.
- Developed in a group with two other students.
- Tools and languages employed: PHP, Javascript, JQuery, Bootstrap, SQL, PostgreSQL, Github.

Robocup June 2023 - Aug 2023

- Implemented skills to apply in the RoboCup five-a-side soccer world championship.
- Utilized a C++ framework developed and provided by the university team.

Cybersecurity Academy Bootcamp Sep 2021 - Dec 2021

- Foundation in the areas of Linux, Windows, Networking, Host and Network Exploitation, Web Application Security.
- Discover, exploit and mitigate web application vulnerabilities.