Gabriele Masiero

Software Developer

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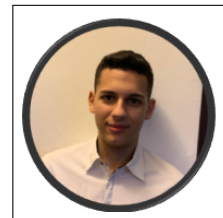
Summary

Dynamic Software Developer with hands-on experience in multi-agent reinforcement learning and a Bachelor's in Computer Science. Over three years of practical experience acquired through research and management roles, including implementing advanced algorithms and optimising large-scale environments. Proven ability to manage extensive data systems and enhance operational efficiency. Eager to leverage unique technical skills and problem-solving abilities to drive innovation and contribute to a forward-thinking team.

Work Experience

11/2024 – 01/2025 — **Research Intern – Multi-Agent Reinforcement Learning**, *University of Verona*, Verona, Italy
- Conducting innovative research on multi-agent reinforcement learning (MARL) with an emphasis on agent communication and explainability.
- Implementing and evaluating advanced algorithms such as MAPPO, MADDPG, and MASAC within diverse environments including PettingZoo, Gym, and VMAS.
- Developing distributed training methods, enhancing reproducibility, and executing hyperparameter tuning in large-scale environments.

11/2020 – 01/2023 — **Salesman**, *Dolci Leccornie Snc*, Padova, Italy
- Facilitating in-store sales and providing assistance; supporting catering services during events organised by the proprietors.

11/2018 – 12/2021 — **Manager, Accountant & DB Manager**, *Pace Park Srl*, Padova, Italy
- Oversaw operations of a parking facility with over 1200 spots during significant events at the Padua Fair.
- Championed business growth and financial management, including cash flow analysis, reconciliation, and reporting.
- Engineered and supervised the company's real estate/asset database, focusing on data modelling, data entry standards, quality checks, and efficient data retrieval for operational needs.

Education

2022 – Present — **Bachelor's Degree, Computer Science**, *University of Verona*, Verona, Italy
- Department of Computer Science, engaging in comprehensive studies and projects.

09/2015 – 06/2020 — **Diploma Scuola Superiore, Sistemi Informativi Aziendali**, *I.T.E. Einaudi*, Padova, Italy

Skills

Languages & Frameworks
Python, Java, JavaScript, CSS, JavaFX, Flask, SQL, Docker, Git, REST API

AI/ML
PyTorch, RL (MAPPO, MADDPG, MASAC), PettingZoo, VMAS, Gym

Tooling
Linux/WSL, Conda, Notion API, Google Calendar API

Web/Mobile/UI
HTML, Tkinter, Kivy, FastAPI

Cloud/DevOps
Docker, GitHub Actions (basics)

Soft Skills
Teamwork, Communication, Problem Solving, Ownership

Languages

Italian — Native
English — Near-native