John Doe

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EDUCATION

School August 2020 - June 2025
Master of Science in Engineering, Something *City, Country*

- Specialization in Image Analysis and Machine Intelligence.
- Grades: 4.74/5.00.

Seconf School February 2024 - August 2024
Exchange Studies *City, Country*

- Courses in: Advanced Probability Theory, Computer Vision, Modern NLP, Reinforcement Learning.
- Grades: 4.74/5.00.

EXPERIENCE

Company August 2022 - Present
Student Test Engineer (Part-Time) *City, Country*

- Conducted comprehensive **testing** of network speaker firmware and software, pinpointing critical defects and verifying new features.
- Utilized **PuTTY**, **Wireshark**, and **Postman** to inspect logs, analyze network traffic, and **debug complex issues** in real time.
- Created and managed bug reports in **Jira**, collaborating closely with developers to expedite critical fixes.
- Contributed to **test automation** efforts in **Python** for Windows-based applications, for regression testing.
- Developed productive relationships with **developers** and **product managers** to streamline testing processes.
- **Mentored** new testers by sharing best practices, troubleshooting methodologies, and QA strategies to maintain high software quality.

PROJECTS

Parallel n-step Advantage Actor-Critic

- Implemented a scalable Advantage Actor-Critic (A2C) algorithm using **PyTorch**, achieving optimal policy convergence for both discrete and continuous control tasks.
- Engineered **parallel training** architecture with multiple workers and n-step returns, resulting in **4x faster training** through innovative **batch processing**.
- Developed sophisticated reward handling with stochastic rewards and **reinforcement learning** advantage estimation, demonstrating deep understanding of RL foundations.
- Built comprehensive visualization pipelines using **Matplotlib** and **Gymnasium** to track value functions and enable data-driven hyperparameter optimization.
- Achieved 100% success rate in CartPole while reducing training time from minutes to seconds through effective **parallelization**.

SKILLS

Programming languages	Java, MATLAB, Python, MySQL, C
Machine Learning	PyTorch, Keras, Transformers, TRL, Unsloth, NumPy, SciPy
Version Control	Git
Languages	Swedish, English, Arabic