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

EPFLLaMA: A Lightweight LLM Finetuned on EPFL Curriculum

- Led development of EPFLLaMA, a specialized language model for STEM education.
- Managed the entire dataset creation process, including data scraping, cleaning, and annotation.
- Implemented advanced fine-tuning techniques including Supervised Fine-Tuning (**SFT**) and Direct Preference Optimization (**DPO**) to enhance model performance and reduce bias.
- Applied Parameter-Efficient Fine-Tuning (**PEFT**) methods, specifically Low-Rank Adaptation (**LoRA**).
- Developed a specialized model for Multiple-Choice Question Answering, improving accuracy by 100% compared to baseline models in STEM-related tasks.
- Implemented **quantization** techniques, reducing model size by 50% while maintaining performance, demonstrating skills in model optimization for practical applications.
- Leveraged **Python** and **PyTorch** along with specialized libraries like **Transformers**, **TRL**, and **Unsloth** for model development, training, and optimization.

SKILLS

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