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

Bird Song Classification Using Spectral Analysis and CNNs

- Led a machine learning project to classify bird species from audio recordings, **achieving a 96.31% accuracy** in identifying three common bird species using advanced AI techniques.
- **Automated** data acquisition by **developing a Python script** that interfaced with the Xeno-canto **API**, streamlining the retrieval of extensive bird audio datasets.
- Implemented **signal processing** and spectral analysis in **MATLAB** to generate high-quality spectrograms and **developed an algorithm** for automated syllable detection, enhancing data quality and processing efficiency.
- Enhanced spectrogram data reliability by **applying image processing, data augmentation, and feature extraction** techniques in **Python**, optimizing inputs for convolutional neural network training.
- Designed and optimized multiple convolutional neural network (**CNN**) architectures using the **Keras library** in **Python refining models** to accurately classify spectrograms and selecting the best-performing model.

SKILLS

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