CHRISTOPHE FOYER

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French and US citizenships | Eligible to work without restriction in the UK (settled status), USA and EEA

EXPERIENCE

Freelance ML Consultant - *Remote | 2025 - Present*
 Machine Learning Consultant - AgTech client (vertical farming)

- Led the transfer of ML intellectual property from a robotics startup, ensuring business continuity for robotic crop harvesting.
- Advised on Computer Vision strategy and roadmap for autonomous harvesting systems.
- Rebuilt MLOps pipelines for automated training, evaluation, and deployment across multiple ML projects, enabling the client to run fully automated retraining and deployment without manual intervention.

Tortuga Agtech - *Remote, UK-USA | 2021 - 2025*
 Machine Learning & Computer Vision Engineer (2023 - 2025)

- Designed end-to-end ML infrastructure, allowing ML and field engineers to iterate and deploy models independently.
- Defined roadmaps and managed priorities for labeling, while mentoring ops staff and coordinating internal and external annotation teams.
- Scaled model training from single-GPU experiments to distributed training (Ray & Pytorch Lightning) while ensuring backward compatibility across diverse tasks (detection, classification, segmentation).
- Migrated labeling workflows to CVAT and new providers, reducing annotation costs by 50%+.

 MLOps Engineer (2022 - 2023)

- Unified training-inference interfaces for all deployed ML models enabling faster iteration and reducing duplication across teams.
- Overhauled on-robot ML interfaces (Python & ROS), including implementing testing frameworks, allowing for seamless and reliable model deployments to the field.
- Built new end-to-end ML pipelines for robotics projects in production.

 Robotics Engineer (2021 - 2022)

- Sole UK-based robotics engineer; provided field deployment and GMT coverage.
- Developed visualization and ML infrastructure (Docker, Plotly, AWS).

Maui63 - *Remote, NZ | 2021*
 Software & ML Volunteer

- Built OpenCV/YOLOv4-based labeling and post-processing tools for marine mammal monitoring.

Earlier Experience

- Mechanical Engineer, TWD (*London, UK | 2018 - 2019*) - designed maritime equipment and developed internal Python tools for structural analysis.

EDUCATION

University College London - *London, UK | 2019 - 2020*
 MSc Scientific Computing - Distinction

Washington University in St. Louis - *St. Louis, USA | 2014 - 2017*
 BSc Mechanical Engineering

SKILLS

Core Expertise: Computer Vision, Machine Learning Infrastructure, MLOps, Robotics, Distributed Training, Model Deployment

Programming: Python, SQL, Bash, HTML, CSS | working knowledge of JavaScript, C++, Rust
Tools & Libraries: PyTorch, Docker, PostgreSQL, ROS, AWS, Airflow, OpenCV, Ray, PyTorch Lightning