

Connor McShane

Senior Machine Learning Engineer

Senior ML Engineer at Fusionride with 4+ years in computer vision focused on autonomous driving. Early employee in a start up building vision systems from concept to deployment and leading MLOps. Actively writing and reviewing PyTorch code daily.

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📍 London

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WORK EXPERIENCE

Senior Machine Learning Engineer - Perception Systems Fusionride

05/2022 - Present

London

Based in Research as part of the AI team. Fusionride is a start up owned by Fosun, focused on perception systems for autonomous vehicles.

Achievements/Tasks

- Delivered depth estimation network for multi-cam, multi-radar sensor system with deep neural-network fusion.
- Unsupervised depth from motion and Lidar Supervised training methods.
- Setup multi-task training with 2D & 3D object detection + semantic segmentation networks.
- Built a custom 3D world reconstruction visualiser with occupancy grid and 3D bounding boxes.
- Led ML Ops for Europe team. Set up AWS infrastructure, job scheduling and experiment tracking software.
- Travelled to China to support the in house driving data collection. Specifically for calibration and synchronisation.
- Supported model deployment on hardware (NVIDIA Orin).
- Aided recruitment, interviewing candidates at all levels.

Senior Data Scientist - Computer Vision Accenture

09/2021 - 04/2022

Dublin

Accenture's global innovation center "The Dock" in Dublin.

Achievements/Tasks

- Led analytics on sustainability in AI project, contributing to research paper and patent filings.
- Organised internship program for Analytics and AI interns.
- Led workshop sessions on computer vision and deep learning.

Graduate Machine Learning Engineer - Autonomous Driving Perception Research Jaguar Land Rover

09/2019 - 09/2021

Warwick

JLR Research based at the National Automotive Innovation Centre on Campus at Warwick University.

Achievements/Tasks

- Led algorithm development of camera-lidar sensor fusion for 3D object detection.
- Acted as main point of contact for large scale autonomous vehicle dataset labelling supplier.
- Developed vehicle behaviour data-set. Led development of auto-labelling computer vision pipeline utilizing drones to label infrastructure footage.
- Vehicle trajectory prediction model based on convolutional LSTM units for occupancy grid prediction.

SKILLS

Linux

Python

PyTorch

TensorFlow

AWS

Docker

Kubernetes

Weight & Biases

Git

CI/CD

Pytest

GitLab Pipelines

OpenCV

Open3D

Numpy

Pandas

EDUCATION

MEng Mechanical Engineering (1st Class) Queen's University Belfast

09/2013 - 06/2018

Belfast

Courses

- Masters Project: Mixed Chemistry Energy Storage System for Formula Student Car
- Founding member of the Queen's University Robotics Society

CERTIFICATIONS & ACHIEVEMENTS

AWS Certified Cloud Practitioner (01/2022 - 01/2025)

Earning AWS Certified Cloud Practitioner validates cloud fluency and foundational AWS knowledge.

Python Programming Assessment LinkedIn (12/2020)

In the top 5% of 1.2M people who took this skills assessment.

APM Project Management Certification (02/2020)

APM Project Management Fundamentals Qualification. Recognised by the chartered body for the project profession.

Royal Academy of Engineering Leadership Scholarship Award Winner (2016)

Scholarship awarded to only 35 students across all UK engineering disciplines each year. Facilitates accelerated personal development.

INTERESTS

Running

Gaelic Football

Triathlon

3D Printing

AI & Technology

Robotics