

Machine Learning Engineer with over 6 years of experience in ML and software engineering.

Recently completed a master's in AI Ethics & Society at the University of Cambridge. I received a first-class mark.

Skilled in Python, Tensorflow, TFX, Kubernetes, gRPC, and general web development. Currently focusing on MLOps.

Outside of Machine Learning, I enjoy swimming, disco music, and wasting money on smart-home devices.

RECENT EXPERIENCE

SKY

Machine Learning Engineer

Oct 2020 - Present

Building a framework for deploying ML models into production in a robust and scalable way, which has helped serve recommendations to millions of customers. Concerned about popularity bias in recommendation systems. Improving skills in Python, Scala, TensorFlow, TensorFlow Serving, TFX, Kubeflow and gRPC.

Developer II

Mar 2020 - Oct 2020

Continued to strive for high quality production code whilst expanding the NOWTV application to more territories. Mentored junior developers, guided technical discussion, and encouraged best practices for code reuse.

Developer

Dec 2018 - Mar 2020

Worked on the NOW TV client applications, which run on smart TVs and on the web. Responsibilities included adding new features, fixing bugs, and ensuring CI pipelines run smoothly. Ensured that the NOW TV mac application was notarized correctly in order for it to comply with macOS Catalina. React/Redux based. Also completed a secondment in a Data Science team, in a project on automatic content scheduling, using Python and TensorFlow. Involved data analysis, data transformation, and training models.

Associate Software Developer

Jul 2017 - Dec 2018

Worked on a prototype Alexa skill/Google Home action, gaining experience with NodeJS and Alexa/Google Home APIs.

Summer Placement, Software Engineering Academy

Aug 2016 - Sep 2016

FREELANCE WORK

Client: Peter Osborne

Oct 2019

Worked with Peter to build boris-johnson-lies.com. Designed and built the site from scratch using GatsbyJS, backed with Contentful CMS and hosted on Netlify. Has had over 150,000 users in 3 weeks. Developed an interest in how fake news can be detected.

EDUCATION

UNIVERSITY OF CAMBRIDGE

MSt AI Ethics and Society

Sep 2021 - June 2023

1st Class part-time Master's degree in AI Ethics and Society, equivalent to a full-time MPhil. A unique, multidisciplinary course that gave me the critical skills, knowledge, and analytical abilities needed to identify and address ethical challenges of AI. Dissertation on the ethical implications of open-source explainability tools.

SPRINGBOARD

Machine Learning Engineering Career Track

Sep 2019 - May 2020

Intensive online course covering the fundamentals of machine learning, deep learning, NLP, and CV. Also involved a capstone project to design, develop and deploy a completely scalable machine learning system. Gained skills in Python, Scikit Learn, PyTorch, and end to end machine learning.

UNIVERSITY OF MANCHESTER

BSc Computer Science

Sep 2014 - Jun 2017

1st Class BSc Computer Science (Hons). Overall grade: 79%. Third Year Project: 85%

TWYFORD C OF E HIGH SCHOOL

Student

Sep 2007 - Jun 2014

A Levels: Maths (A), Further Maths (A), Physics (B) Art AS (A). GCSEs: 6A*s, 4As, 1B. Head Boy in Yr13, House Captain in Yr12.

PROJECTS

- Traffic Light Recognition: Detection of Traffic Lights using Faster RCNN architecture, written with Pytorch, deployed using AWS Elastic Beanstalk.
- Tracking Football Players: Tracking football players in low quality video using traditional Computer Vision techniques.