



Software Engineer with over 5 years experience in Web Development and Machine Learning.

Excited about the potential of Machine Learning and AI.

Web Development skills: JavaScript, TypeScript, Node, React, Redux, Gatsby, HTML and CSS.

Machine Learning skills: Python, Pytorch, Pandas, and SciKit Learn.

EXPERIENCE

SKY

Developer II

Mar 2020 - Present

Led the rebranding of the Sky Ticket app. Continuing to strive for high quality production code whilst we expand the NOWTV application to more territories. Often mentoring junior developers, guiding technical discussion, and encouraging best practices for code reuse.

Developer

Dec 2018 - Mar 2020

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, ensuring 100,000+ users were still able to use the application. React/Redux based, but also worked with TypeScript, SCSS, and Ruby.

Secondment

Nov 2018

Completed a 1 week secondment in the Data Science and Machine Learning team, on an automatic content scheduling project, using Python. Involved data analysis, data transformation, and feature engineering.

Associate Software Developer

Dec 2017 - Dec 2018

Initially worked on a prototype Alexa skill/Google Home action, gaining experience with NodeJS and Alexa/Google Home APIs. Worked on a CMS for custom pages on the NOW TV website, using React, Redux, and Node. Introduced a form verification service to the CMS. Ensured that the NOW TV website and desktop player were internationalized to deploy to five territories from one single codebase. Developed a slick new user interface for the website. Obtained skills in React, Redux, Node, Mocha, Jest, and Electron.

Summer Placement, Software Engineering Academy

Aug 2016 - Sep 2016

Helped develop a Node JS application, gaining a deeper understanding of how to produce software at scale.

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 and eradicated.

438 MARKETING

Summer Placement

Jul 2015 - Sep 2015

Applied skills in HTML, CSS, PHP, Wordpress, and Photoshop to the digital advertising space during a summer internship. Learnt about driving Marketing Strategy, eCommerce and Social Media engagement with software. Created web traffic reports using Google Analytics.

EDUCATION

SPRINGBOARD

Machine Learning Engineering Career Track

Sep 2019 - May 2020

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

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