# AIDAN DUNLOP

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## ABOUT

Experienced Software Developer interested in useful applications of Machine Learning, with 5 years experience of writing software.

## EXPERIENCE

### Sky

- **Developer** *December 2018 - Present*
  Currently working on the NOW TV client applications, which run on smart TVs and on the web. Responsibilities include adding new features, fixing bugs, and ensuring CI pipelines run smoothly. Recently ensured that the NOW TV mac application was notarized correctly in order for it to comply with macOS Catalina. React/Redux based.

- **Work Experience, Data Science & Machine Learning Team** *November 2018*
  Completed work experience in a Data Science team, in a project on automatic content scheduling, using Python and TensorFlow. Involved data analysis, data transformation, and creating models.

- **Associate Software Developer** *December 2017 - December 2018*
  Completed Sky's software engineering academy, developing 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. Helped internationalise the NOW TV website and desktop player in order to deploy to five territories (and counting), and involved in the development of a slick new user interface for the website. Obtained skills in React, Redux, Node, Mocha, Jest, and Electron.

- **Summer Placement** *August 2016 - September 2016*
  8 week summer placement with the Software Engineering Academy at Sky, working on a React/Node app. Learnt what it meant to be a software engineer at a large organization, and how to build scalable applications whilst working in an agile team.

### Freelance work

- **Client: Peter Oborne** *October 2019*
  Worked with Peter to build `https://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,** *July 2015 - September 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**                                     *September 2019 - Present*
Machine Learning Engineering Career Track
Course covers the fundamentals of Machine Learning, Deep Learning, NLP, and CV.
Also involves a capstone project to design, develop and deploy a completely scalable machine learning system.
Gaining skills in Python, Scikit Learn, TensorFlow, PyTorch and others.

**University of Manchester**                         *September 2014 - June 2017*
1$^{st}$ Class BSc Computer Science (Hons)
Overall grade: 79%
Third Year Project: (85%) Tracking Football Players in low quality video, using Image Processing and Computer Vision techniques, such as SIFT, HoG, and Gaussian Mixture Models.

**Twyford C of E High School**                       *September 2007 - June 2014*
A Levels: Maths (A), Further Maths (A), Physics (B)
AS Level: Art (A)
GCSEs: 6A*s, 4As, 1B
Head Boy in Year 13, House Captain in Year 12.

## TECHNICAL STRENGTHS

Skilled in:

- Programming Languages: JavaScript, Python, C++, C, Java, & MatLab.

- Web Development: React, Redux, Node, SASS.

- Open source libraries: OpenCV & TensorFlow.

- Git, BASH, OS X, Windows, Linux & LaTeX.

## AWARDS

**NOWBEL, NOW TV**                                                *August 2018*
Team award from NOWTV for work on seamless design of website.

**Roger Boon Cup, Twyford**                                       *June 2014*
Awarded to the student leadership team whilst Head Boy.

**Year Prize, Twyford**                                          *July 2011*
Student of the year.

## ACHIEVEMENTS

- Completed the Richmond Autumn 10km run, raising £10,000 with a group of runners raising money for Centrepoint charity.                                    *October 2018*

- Raised £2000 for Centrepoint & Mind charities by solely organising, running and hosting charity disco event, with live music and acts.                          *September 2018*

## INTERESTS

Keen fan of rock climbing, swimming, disco music, and trumpet. Has played trumpet in live bands, orchestras and brass ensembles. Enjoys being creative, shown through interests in art and theatre, having had a number of principal roles at The Questors Theatre in Ealing, the largest amateur theatre in Europe.