Alexander Carter

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Ludcation			
St Andrews MSc Artificial Intelligence: Merit			
Dissertation: Predicting the product of chemical reactions with a range of molecular encodings			
University of Bath BSc Mathematics: 2:1			
Bath Gold Scholar (1 of 50 selected)			
Pearson College UWC - full scholarship (2 out of over 1000 applicants)	2015-2017		
Relevant Experience			
Google Developers Club			
Google Bold Immersion programme			
Charisma.ai: Freelance work			
Teaching Python: Classes of up to 50 undergraduates, from basics to building an automated trading bot	2018-2020		
 Designed a 20 hour interactive course, alongside occasional homework notebooks 	06-09/2019		
Jump.work: Sentiment analysis, text similarity, machine learning, database exploration			
 Improved targeting accuracy from an f1 score of 1.8% to 53.5% Automated categorisation of customer service emails with weekly self-generating analysis reports 	06/2018		
University of Bath: Built a database, and led an independent research study			
GFC Economics: Involved teamwork, report writing, creative thinking and market analysis			
Led a team of private researchers: Successfully grew client base for 'Vancouver Writers' Exchange	06/2014		

Personal Projects_____

Poker game: Web application to play against adaptable AI, with reinforcement neural network

Puzzle Solver: Using convolutional line detection, contour and colour matching to beat out CNN's

Dog Training: Trained a CNN to classify dog posture to 99% acc, and built a treat release mechanism

The MET Office: Utilised Python to form weather models and presented ideas on improving outreach

Compact Security Camera: Arduino controlled, with motion detector, web app and email notifications

Automated Trading: Scrapes football odds and results, XGBoost predicts best ROI, Selenium places bet

Debate bot: Scraping and automating across platforms, utilising NLP and GPT-2 and a news api

Additional Experience_____

Young carer: Looking after older sister, who suffers from OCD, dyslexia and is on the autistic spectrum				
Volunteering: Music festivals with Oxfam, caring for the incapacitated				
Finance Society Secretary: Weekly newsletters, market outlook sessions, organising a conference				
TEDX talk: Flaws of the UK mental health services	01/2017			
Formed and chaired a Current Affairs group: Led a week of workshops at local school				
The SCA: Cutting trails in Alaska, cleaning culverts in Michigan, building bridges in Tennessee	2015-2017			
Tutoring kids: Providing academic assistance to struggling kids	2014-2015			
National finals for the UKMT	2014			

About Me____

Technical Skills Python · Java · Pytorch · Tensorflow · OpenCV · Django · SQL · AWS · Scraping

Languages French · semi-fluent in Dog

Interests Poker · Chess · Writing · Screenwriting · Running with dog