Ellie Birbeck

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Experience

Software Engineer
Zumper | San Francisco
Sep 2018 - present

- Implementing updates and additions to services across the back-end system
- Building a computer vision system to understand the content of real-estate images through scene labelling, object detection, and likability measures

Sales Executive
Liquid Learning | Sydney
Apr 2018 - Jul 2018

- Generated revenue by sourcing leads and closing deals for women's leadership events
- Pitched to C-level executives at state and federal government and ASX listed companies
- Consistently exceeded personal revenue targets by more than 25%

Technical Writer
Freelance | Remote
Nov 2017 - Aug 2018

- Clients include DigitalOcean and Hyperion Development
- Created end-to-end technical tutorials mostly focused on artificial intelligence topics (machine learning, deep learning, model deployment) - samples at elliebirbeck.com/writing

Software Engineer
Mi Águila | Bogotá
Jul 2017 - Sep 2017

- Built a machine learning system to predict driver demand for a transportation start-up
- Developed an interactive heat map interface for visualising predictions
- Created a matching algorithm to suggest high-demand locations to drivers in real-time

Education

University of Bristol
M.Eng Computer Science
Sep 2013 - Jul 2017

- First Class Honours (~4.0 GPA)
- Won the Bloomberg Award for 'Best Final Year Project in Machine Learning'
- Third year spent studying abroad at the University of Oregon

Projects
more at elliebirbeck.com/projects

Tweets to Trades
M.Eng Thesis

- Developed a novel approach to the sentiment classification of stock-related tweets, and an automated trading system using predictions on new tweets, returning a 5% monthly profit
- Pitched a business plan and product prototype based on this research to an industry panel

Rate My Plate
Boeing Hackathon

- Built a Twitter bot that calculates the carbon footprint of a meal from a tweeted photo
- Awarded the prize for 'Best Implemented Prototype' out of 18 teams

Achievements

- Published and presented a research paper at IEEE SSCI 2018, an international conference on computational intelligence
- Started an online business producing and selling film merchandise aged 15, with over 50X return on investment
- Elected as Head Girl at school, which involved managing a team of 16, chairing 3 councils, and public speaking to 1000+ people
- Gold Award for the UK Senior Maths Challenge 2012 and the UK Junior Maths Challenge 2008 and 2007
- Selected by the Royal Institution of Great Britain for Mathematic Masterclasses for 5 years running (~100 selected per year)