

Education

University of Bristol 2013-2017

- M.Eng Computer Science
- First Class Honours (~4.0 GPA)
- Won academic prize for research project

University of Oregon 2015-16

- Third year spent abroad in the USA

Awards

- Bloomberg Award for 'Best Final Year Project in Machine Learning' 2017
- Gold Award at UK Senior Maths Challenge 2012 and Junior Maths Challenge 2007/8

Skills

- Python (scikit-learn, TensorFlow)
- Java, JavaScript, R, Matlab, HTML
- Git, LaTeX, AWS, MongoDB, PostgreSQL

Achievements

- Started an online business selling film merchandise aged 15, with a 50X return on investment after 4 months
- Elected as Head Girl at school, which involved managing a team of 16, chairing 3 councils, and regular public speaking to 1000+ people
- Selected by the Royal Institution of Great Britain for Mathematic Masterclasses every year from 2009-2013 (~100 selected across London)

Experience

Technical Writer - Freelance 11/17 -

- Creating technical tutorials for educational technology clients
- Topics mostly focused on artificial intelligence (machine learning, computer vision, model deployment, cloud computing)

Software Engineer - Mi Águila 7/17 - 9/17

- Interned for a Colombian transportation start-up in Bogotá
- Built a machine learning system to predict driver demand, with a heat map interface for real-time and future visualisations, and the back-end for a location suggestion feature
- Automated a business intelligence reporting process to save 1 hour of company time per day

Workshop Instructor - Digimakers 9/16 - 6/17

- Delivered hands-on educational tech workshops to children at a science museum, schools, and conferences

Marketing Coordinator - Digimakers 9/14 - 6/15

- Promoted an educational technology organisation through marketing events and growing social media channels by 74%

Projects

more at elliebirbeck.com/projects

Tweets to Trades

- An automated trading system based on a novel sentiment analysis approach to tweet classification, returning a 5% profit over one month

Rate My Plate

- A Twitter bot that calculates the carbon footprint of a meal from a tweeted photo, created with 4 others in a 24-hr Boeing hackathon
- Awarded the prize for 'Best Implemented Prototype' out of 18 teams

StressLess

- An interactive stress ball created for a product design project, which uses pressure sensors as a control system and to collect user metrics