

ERIC HAMBRO

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PROFESSIONAL EXPERIENCE

Bloomberg LP

July 2015 - August 2017

Financial Software Developer - Instrument & Pricing Platform Team

London, UK

- I worked primarily on Bloomberg's flagship FX Derivatives Pricing Platform. This consisted of maintaining, developing and deploying a codebase of distributed services and libraries with a large C++ backend ($10^6 loc$), a JS frontend ($10^4 loc$), and Python testing framework ($10^5 loc$) in a Unix environment.
- I led the team's move to more modern working practices including: a configurable continuous integration system, moving our code to GitHub, and automating our distributed integration tests.
- I designed and implemented integration of new unique identifiers for saved trades, in our largest service. This required care in working with legacy systems, and close communication with stakeholders.
- I received 8 weeks full-time training in C and C++, and represented Bloomberg at Git Merge 2018.

The Recurse Center

February 2015 - May 2015

Participant

New York City, USA

- The Recurse Centre (RC) is a selective, self-directed, educational retreat for programmers. Here I split my time working on major projects, working through textbooks and writing smaller programs.

Example Project: Twirps *python, javascript, d3.js, numpy, Flask, Neo4j*

- I wrote Twirps to collect, analyse and visualize politicians' tweets in the UK General Election.
- I implemented the K-Means algorithm and visualised the twitter graph and clusters with d3.js.
- (*cont. 2016*) Since then, I ported Twirps to a live-updating Flask app with a Neo4j database.

EDUCATION

University College London

2017 - 2018

MSc in Machine Learning

Class: 1 (Distinction)

- *Received the highest overall degree average in the MSc (2018)*

Courses:

Module Average: 88.6%

- Probabilistic and Unsupervised Learning* · Approximate Inference and Learning* · Advanced Deep Learning and Reinforcement Learning[†] · Supervised Learning · Statistical Natural Language Processing · Applied Machine Learning · Introduction to Deep Learning · Bioinformatics

*taught by Gatsby Computational Neuroscience Unit [†]taught by Google Deepmind

Thesis:

Thesis Mark: 87.0%

- *"Automatic Documentation of Fine-Grained Elements in Source Code"*
 - I devised new encoder-decoder architectures to generate argument docstrings from syntactical and lexical features of source code. Architectures included decoding an attention vector over embeddings of the decomposed AST. I received the second highest mark in the year for my thesis.
- Supervised by: Prof. Sebastian Riedel (NLP)* *Implementation: Tensorflow, AWS*

Cambridge University, Magdalene College

2010 - 2014

BA & MSci in Natural Sciences (Physics)

Class 2:1, 69.7%

- *Received the top mark in Condensed Matter Physics (major course) (2014)*
- *Received Academic Exhibition to Magdalene College (2013)*

SIDE PROJECTS & OTHER EXPERIENCE

- (2018) Coursework - Derived and implemented Q-Learning, SARSA, Expected SARSA, Dyna-Q on toy problems. Implemented deep neural nets (CNNs, RNNs) to solve various toy problems (Tensorflow)
 - (2017) Coursework - Derived and implemented Expectation Propagation, mean-field variational EM schemes on toy binary latent factor model (numpy)
 - (2016) Smithers - Wrote a server for bots to play poker against each other (C++, ZMQ, websockets)
 - (2016) Monty - Wrote a poker bot that plays using naive probabilistic methods (Python, websockets)
- Internships** (non-technical): BGI (*Lisbon - 2014*), Credit Suisse (*London - 2013*), DHFL (*Mumbai - 2012*)