DANIEL HAILS

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EXPERIENCE
Companies I've had the pleasure to work with:

CybaBrain FOUNDER
Operated for 6 years, CybaBrain guides businesses into the world of informatics and provides tangible value.
Web Development - Bespoke small business LAMP and django websites decreasing bounce rates by 60% and increasing goal completion by 25%. Programmed custom CMS and client scheduling systems.
Video Editing - Created Vox Populi for market research companies to present to blue chip brands (e.g. *Boots*, *Dixons*, *Homebase* and *Bonmarché*) preventing the loss of thousands to the bottom line

Shell SUMMER INTERN (THREE WEEKS)
- Joined the Consumer Data and Analytics Team in TACIT which involved gaining insights from 'Big Data'.
- Summarised data for stakeholders and learnt agile development.
- Created a promotional video for the Lync system
- Helped organise a Hackathon
- Designed website elements for the ITConnect Group
- Gained familiarity with the DEX trading platform.

Entrepreneur First WORK EXPERIENCE
EF is an pre-seed investment programme that helps technical founders build Deep Technology companies. I joined some seriously impressive people within the Talent team to aid with: Fund Launch Party (finding details for 300+ Market Leading Investors, Journalists and Entrepreneurs and purchasing vital items for it) Finding 86 new talent leads through the "City to Start-up" scheme from companies such as Accenture, McKinsey & Co, The Economist, JP Morgan.

Imagination Technologies WORK EXPERIENCE
Joined the Compilers and Tools team to create a fuzzer - a program that automatically generated valid (semantically and syntactically) MIPS assembly code - to test the flexibility, and completeness of a new compiler.

HABSMUN VOLUNTEER ORGANISER
Responsible for organising a United Nations simulation for the past 3 years. Involving over **1,200** students over a three day weekend with 200 volunteers to manage. Designed the technical infrastructure including: website, recruitment system, print administration to reduce costs by £6,000, whilst leading an amazingly gifted team.

SKILLS
Technical programmer with soft skills

Languages/Technologies
Proficient in Python, Java, C, Haskell; Familiar with: x86 Assembly, SQL, NumPy, Tensorflow, Ardunio, Octave/MATLAB
Experienced with Git, Amazon Web Services, iPhone/Android, Unix/Linux/Windows, LAMP stacks, Django.

Public Speaking
Represented the UK internationally via EYP (Youth Parliament) on the Gender Equality and in the Environment Committee.

Teaching/Organisation
Taught 40 students Machine Learning from scratch over a 6 month course, based on the Stanford Coursera course (achieved 100%)

PROJECTS
Some of my independent projects

S.W.A.R.M.
- Social Workforce of Aerial, Rotary Machines
- Hand-built a 3D printed quad-copter controlled using a custom PID Control system on a Arduino Mega board. Uses a bluetooth 7 slave-master system + scatter-net for aggregating data over multiple machines.

Justice Peeks
- Implemented fuzzy extended horn clause logic to make simple naive judicial decisions based upon data extracted from prior case data using the Natural Language Tool-kit.
- Produced a paper aimed to suggest an avenue for autonomous agent judicial decisions that are less biased.

Podcast Ad-block
- Uses a deep convolutional neural network that is trained on transformed audio signals to recognise ad breaks in podcasts.

EDUCATION

2017-2021
M.Eng Computing (Artificial Intelligence)

First year at Imperial College London. Studying Hardware, Programming (Haskell, Java, C), Logic, Discrete Structures, Mathematical Methods

2006-2017
The Haberdashers' Aske's Boys' School

4 A and 4 A* at AS and A2 - Mathematics, Further Mathematics, Physics and Philosophy. 2 of which being full marks.
10 A* at GCSE