Ben Harries

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EDUCATION

Durham University *2018 - 2021 (Expected)*

B.Sc. Natural Sciences (Computer Science and Biology)
- *First Year: **1st Class** (avg. 75.0 %), awarded Honours Prize for outstanding academic performance.*
- Relevant Modules: Algorithms & Data Structures (81%) and Computational Thinking (90%).
- Durham Entrepreneurs, Hild Bede Hockey 1st XI, President of Conservation Society.

EXPERIENCE

MedShr - *Software Engineer Internship* *June - September 2019*

HealthTech Startup which enables doctors to share and discuss clinical cases & medical images
- Developed a custom analytics dashboards for use by MedShr's 30+ partner companies.
- Built the frontend in **React** and **Next.js**.
- Built the API using **Python** (Starlette), **Pandas**, **SQL** and **Big Query**.
- Trained a deep convolutional neural network to identify patient identifiable information in user uploaded images with 92% accuracy.
- Built using **Python**, **Pandas**, and **Fast.ai**.

PROJECTS

Data Pipeline for a Denoising Autoencoder *Personal Project*
- Developed an image generator for training a denoising autoencoder with **Python**.
- Created image transformations and added gaussian noise using **numpy**.
- Optimised the efficiency using **multiprocessing** and added unit tests.

Crowdfunding for Conservation *Personal Project*
- Designed and built a **web app** to crowdfund conservation projects.
- Developed the dynamic frontend using **React, HTML and CSS**.
- Developed the REST API using **Node.js** and **Express** and incorporated the IUCN endangered species list API.

AWARDS

Microsoft Image Cup - *EMEA (Europe, Middle East, Africa) Finalist* *March 2020*
- Our team was selected from hundreds to be one of 10 to advance to compete in Amsterdam with our project Vhysio.

Durhack - *Hackathon Winner* *November 2019*
- Our team won 1st prize out of 47 teams for Vhysio, a machine learning web app utilising **tensorflow.js** to enable accessible physiotherapy for the visually impaired.

Atom Bank - *Hackathon Winner* *February 2019*
- Our team won 1st prize (£1000) for a child-friendly banking app.

Durham University - *Honours Prize for Outstanding Academic Achievement* *June 2019*

PROGRAMMING

Languages:	**Javascript, Python, C++ (Basic)**
Frontend:	React.js HTML, CSS
Backend and Databases:	Node.js, Express, Python (Starlette), MySQL
Data Science:	Python (Pandas, Fast.ai)