

# Luke Harries

cv@lukeharries.me | lukeharries.me | github.com/lharries

## EDUCATION

### UCL

MSc Computer Science

Oct 2017 - Sept 2018

Relevant modules:

- Machine Learning (healthcare focused)
- Advanced Databases
- Algorithmics

### UNIVERSITY OF CAMBRIDGE

ST. CATHARINE'S COLLEGE

BA Pre-Clinical Medicine

Oct 2014 - Jun 2017

Upper Second Class (2.i)

### HAMPTON SCHOOL

Grad. July 2014

4A\*s at A-level:

Maths, Physics, Chemistry, Biology

## PROGRAMMING

LANGUAGES:

- Python, Java, Javascript

### MACHINE LEARNING | DATA SCIENCE

- Pandas, Scikit-learn, TensorFlow

### FULL STACK WEB DEVELOPMENT

- Frontend: Angular4, Ionic 3, React
- Backend: Node.js
- Databases: SQL, MySQL, PostgreSQL & MongoDB
- Cloud: AWS and Azure

## AWARDS

### MICROSOFT PRIZE

2018 HackCambridge

### HACKATHON WINNER

2017 Serious Impact Hackathon

### GLOBAL FINALIST AND

### IOT CATEGORY WINNER

2017 Lee Kuan Yew

Global Business Plan Competition

## OPEN SOURCE

### GOOGLE'S ANGULAR AND ANGULAR/MATERIAL2

Implemented features, important bug fixes, and documentation

## EXPERIENCE

### FOUNDER & CTO | PROTEAM.IO

September 2016 - January 2018

The largest platform for Intra-University Sport in the UK. The app allows students to follow teams, get notified of upcoming games, create team-sheets and more.

- **Co-founded** the company to solve the lack of organisation of University Sport
- **7000+ users** across five universities, launched in **October 2017**
- Managed **three senior developers**
- Single handedly built the proof of concept with **Ionic3**, **Node.js** and **PostgreSQL**
- Led the team using **Agile Methodology** to deliver the **iOS** and **Android app**.

### PRESIDENT | CAMBRIDGE UNIVERSITY STARTUP SOCIETY

October 2016 - October 2017

- **Co-founded** the society to encourage the creation of Startups by undergraduates
- Grew the society to over **600 members**
- Organized events with startup founders, accelerator managers, and venture capitalists. Including CEO of Monzo, Head of Marketing of Bumble and Tinder

### FREELANCE SOFTWARE DEVELOPER

June 2014 - October 2016

- **Suvera | HealthTech** - Implemented key functionality of a prescription management app which increases medical adherence. **Ionic3** and **Node.js**
- **SMS Recruitment Software** - Identified an inefficiency in volunteer scheduling at a local organisation. Developed a web app using **Twilio** to automate the recruitment of their volunteers for jobs. **React** and **Node.js**

## KEY PROJECTS

### MACHINE LEARNING FOR THE VISUALLY IMPAIRED

January 2018 | HackCambridge

Photos online are missing the appropriate description metadata, making them inaccessible to the millions of people with visually impairments.

- Developed a chrome extension which detects these images. **Javascript**
- Generated descriptions using Microsoft's Machine Learning platform to perform object recognition, optical character recognition (image to text) and facial recognition. **Python** and **Azure**
- **Winner** of the **Microsoft Prize**

### FLOWX FLOWX.TECH

September 2017 | Singapore

Applying machine learning to data from existing sensors to optimise traffic signals, solving congestion before it even happens.

- Supported with a press release from the **Shadow Transport Minister of the UK** and mentored by the **Chief Information Officer** of the Singapore Land Transport Authority. Global Finalist and Winner of the IOT Prize.

### RESEARCH PROJECT: COMPUTATIONAL MODELS OF LOUDNESS

October 2016 - March 2017 | University of Cambridge

Investigated the Moore and Glasberg (2007) computational model for loudness.

- **Co-author** with the world hearing expert, Professor Brian Moore. Paper under review by The Journal of the Acoustical Society of America and presented at their 2017 Boston conference
- **Statistical analysis** conducted with **SPSS** and **Python**