RubyFerguson

contact

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programming

Python
(Flask, OpenCV,
PyGame, Robotics)
Javascript (Node,
three.js, Express,
Angular, Koa, React),
Java, C#, Arduino
CSS3 & HTML5,
LaTeX, Linux (Ubuntu,
Arch)

education

Sept. 2016 - present	**Undergraduate, Theoretical Physics MPhys**	Lancaster University

Second Year - 21.5 (Current Average at time of writing)
First Year - First Class

2012-2015	**International Baccalaureate**	Gresham's School, Holt, Norfolk

IB Higher Level: English - 7, Physics - 7, Maths - 5,
Standard Level: Chemistry - 7, Latin - 6, History - 5,
Theory of Knowledge/Extended Essay - 3. Total 40/45

2009-2012	**GCSEs**	Gresham's School, Holt, Norfolk

10 a*, 1a, 1b

employment

1/7/16 - 1/9/16	**Neontribe, Norwich**	Summer Job (Software Developer)

I worked on building tests "Great British Public Toilet Map", a project helping people locate public toilets. I then went on to write an application to analyse the data from the crowd-sourced positions and types of toilets across the UK.

1/2/16 - 7/4/16	**Rebel Uncut, Birmingham**	Freelance work (Software Developer).

I worked as a freelance developer through Rebel Uncut working on a project for Goodyear developing a game for them that encouraged young drivers to avoid distractions and quizzed them on elements of the highway code.

1/6/15 - 12/9/15	**Neontribe, Norwich**	Full Time Employment (Software Developer).

I led a small team developing a graphical and expandable solution which could be used by non-technical staff member to streamline their deployment process. I was working in Python and Flask with a Javascript front-end.

22/11/14 - 29/5/15	**Switch Identity Governance, Norwich**	Full Time Employment (Lead Developer).

I led a development team working on a number of projects exploring novel uses of Switch's technology including accounting packages and telecommunications applications in addition to developing applications in Node (MEAN stack) and Python.

awards

2014	**iDEA Awards**	Beta round Participant

I was selected as one of the top 100 under 25s in Britain for my educational robotics platform concept and prototype.

2013	**Young Rewired State**	"Best Example of Code" Category Finalist

I created an app for comparing the user's political views with those of MPs in Parliament, then created an autonomous guidance system to shoot the least liked MPs with nerf darts.

2012	**Young Rewired State**	"I wish I'd thought of that" Category Winner

I was part of a team that built a mapping application that gave human-like instructions based on local geographic landmarks.

interests

Within physics, my primary interests lie in the areas of quantum and particle physics - and in particular, the use of computer simulations to model physical situations. Outside of physics I enjoy making and simulating robotics with a specific focus on education robotics and swarm and evolutionary robotics. I have been involved in a number of outreach projects designed to teach children about programming and STEM subjects. Additionally I am a member of Historia Normannis, an international 12th Century reenactment society and social secretary of Lancaster University Living History Society.

references

Professional:	**Mr Harry Harrold**	Director of Neontribe

harry@neontribe.co.uk

Academic	**Prof. Guennadi Borissov**	Academic Advisor

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