

# Robert Nixon

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## EXPERIENCE

### Develop 1 Limited, Bicester

July 2016

I joined Develop 1 Limited for a week of work experience after finishing my AS Levels. Whilst working there I developed experience in managing and maintaining SQL databases with MS server management studio. I also learned about the admin side of running a small business, for example I was put in charge of calculating the expenses for the company for the past year.

### North Oxfordshire Green Party, Cherwell — *Web Developer and Co-chair (previously Vice Chairperson)*

August 2015 - Present

I joined the North Oxfordshire Green Party in April 2015 just before the General Election. Since then I have been elected Co-chair (previously Vice Chairperson) of the branch and have created a new website (current version at [nogp.org.uk](http://nogp.org.uk)) for them, adding features as required.

Possibly the most valuable experience I have gained from being a part of this organisation is the soft skills that I have developed. In my opinion, the current Computer Science curriculum in the UK does little to build vital soft skills, such as working in teams on projects, that are vital to have in the workplaces of today. I believe being part of the North Oxfordshire Green Party and being trusted with a level of responsibility that I had not previously experienced has enhanced my ability to work in teams, deliver work/projects to deadlines and communicate clearly with others.

As part of my role, I've also gained experience using CiviCRM for managing our membership records. I have been trusted with access to membership records for Oxfordshire in order to email members with updates and also to manually update membership records when/if required.

## SKILLS

### Joomla CMS

I have experience using the Joomla content management system. I have used Joomla on my Computing Tutor website and in the past on the North Oxfordshire Green Party site.

### Technologies

Additionally have experience using the following technologies:

- Languages:
  - Python
  - Java
  - HTML/CSS
  - SQL
- Tools:
  - Android Studio
  - phpMyAdmin
  - Netbeans
  - Pycharm
  - IntelliJ Idea
  - Git and Github
- Operating Systems:
  - Windows
  - Linux

## AWARDS

**Achievement in Computer Science** Year 13, Wheatley Park School

Completed [Brookes Engage](#) programme in Computer Science Oxford Brookes University ([Certificate](#))

## PROJECTS

### **Computing Tutor** — *A website for teaching computer science to GCSE and A Level students. (computingtutor.net)*

I started this project in July 2016 as part of my level 3 extended project qualification.

The idea came from my experience revising for Computer Science exams. When revising it became apparent that there wasn't many good quality websites dedicated to teaching the content that GCSE and A Level students need to know. I decided to address this with video tutorials showing students how to get full marks on actual exam questions.

The site is in its infancy at the moment and I have not built up a large audience. However I've begun developing the site beyond the timescale of the level 3 extended project as Computer Science is becoming a more important area of knowledge for school age children to learn about every year.

### **Computing Tutor Android App** — A native client for viewing Computing Tutor tutorial videos on Android devices

I decided to develop a native client for Computing Tutor in order to practice my Android development and Object-oriented programming skills originally acquired whilst studying A-Level Computer Science and also to promote the website to users of the Google Play store.

I used Android Studio, Java and the YouTube Data API to develop the application which is [available to download via the Google Play store](#). The app is free software made available under the terms of the MIT license. The license, along with the application source code, can be [viewed on Github](#).

### **Canvass Master** — A mobile application to improve the effectiveness and efficiency of canvassing in first past the post elections.

I developed the first version of Canvass Master for my A Level Computer Science coursework.

I thought of the idea whilst overseeing the canvassing process in the Green Party. Data from the canvassing session would be entered into a spreadsheet after being recorded on canvass sheets and then analysed. I realised that if we had an application canvassers could use on their mobile phones that allowed them to enter the data about each conversation and instantly record it in a database, it would save hours of time spent entering data and free up more time for party members to talk to more voters and carry out other tasks.

The version I created for my A-Level Computer Science was not suitable for public release, however I'm looking to develop the app further and to release it in future.

## EDUCATION

### **The Cooper School, Bicester — GCSEs**

September 2010 - June 2015

GCSEs Achieved:

- Applications of Mathematics - A
- Biology - B
- Chemistry - A
- Computer Science - A\*
- English Language - B
- English Literature - B
- Engineering - A
- Geography - B
- Methods In Mathematics - A
- Physics - A
- Religious Studies - A

### **Wheatley Park School, Holton — AS and A Levels**

September 2015 - August 2017

AS Levels Achieved:

- Computer Science - B
- Further Mathematics - C
- Mathematics - B
- Physics - C

A Levels:

- Computer Science - B
- Mathematics - A
- Physics - C

Level 3 Extended Project Qualification - A

### **Oxford Brookes University — Computer Science**

September 2017 - Present

I'm currently studying for a Bachelor's degree in Computer Science at Oxford Brookes University.