

Rob Willison

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EXPERIENCE

MARCH 2020 -

CURRENT Senior Software Developer

CiteAb, Bath, UK

Ruby on Rails and Python. Lead the design and implementation of API's to allow integrations with 3rd party systems.

Worked on improving CiteAb's text mining algorithms reducing the run time by 50%.

Implemented a NLP based automated review tool to reduce the requirement for human reviewers while maintaining a very high level of accuracy, using Python, Spacy and AWS Lambda.

AUGUST 2017 -

MARCH 2020 Web Developer

CiteAb, Bath, UK

Ruby on Rails developer working in a team of 3 on CiteAb's search engine and text mining systems.

Designed and built a set of API's for client data provision. Migrated search engine from Apache Solr to an Elasticsearch service running on a AWS EC2 instance.

Research and implementation of a machine learning system to improve the efficiency of human reviewing using Python, Keras, SpaCy and AWS Lambda.

OCTOBER 2016 -

JUNE 2017 Final Year Project Student

CiteAb, Bath, UK

Final year project with the aim to develop a machine learning application capable of recognising institution names in research papers with greater accuracy than CiteAb's current system. The project is written in Python using a MySQL database.

JULY 2015 -

JULY 2016 3rd Year Placement Student

Mayden Limited, Bath, UK

Working as a PHP and Javascript developer adding features and providing 3rd line support for the UK's leading patient management software for psychological therapies.

EDUCATION

SEPT 2013 -

JUNE 2017 BSc Computer Science, First Class with Honours
University of Bath, Bath, UK

SEPT 2011 -

JULY 2013 A/AS - Levels
Didcot Sixth Form College, Didcot, UK
A Level Computing - A*

SEPT 2010 -

JULY 2011 GCSE **St Birinus School**, Didcot, UK
9 GCSE passes at grade C or better, including Mathematics & English

AWARDS AND ACHIEVEMENTS

FEB 2016 Certified PHP Engineer, Zend Technologies

OCT 2015 Certified Scrum Master, Scrum Alliance

AUG 2013 Netcraft AQA A-level Computing Award, Awarded to Top 50 UK students

HOBBIES

JUNE 2021 Started a YouTube channel to document home projects such as; a table football table that can play against you using machine vision and a raspberry pi, a voice controlled spice rack using speech recognition, and currently building a hand sanitiser dispenser that detects the position of your hands and shoots to soap at them.

DEC 2020 Built a shopping list website (dotheshopping.co.uk) that uses NLP and web scraping to extract ingredients and amounts from recipes, lets you make a weekly schedule and collates the ingredients required into a shopping list.