

# Kelvin Nyakundi

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[GitHub.com/kbnyakundi](https://github.com/kbnyakundi)

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Website: [theurbancoder.co.uk](https://theurbancoder.co.uk)

**Languages** (Experience in years):

Java(4), Python & SQL(3), JavaScript(2), C & C++(1)

## EDUCATION

### MEng

Oct 2016 - June 2020

Current average: 1:1

### University of Warwick

Computer Science (4th Year)

Modules Include: Algorithms & Data Structures, Web Development Technologies, Advanced Computer Security, Machine Learning, Algorithmic Game Theory, Databases

### A-levels

Oct 2014 - July 2016

### Altrincham Grammar School for Boys

Mathematics - A\*, Further Mathematics - A, Physics - A\*, Chemistry - A\*, Computing (AS Level) - A

### GCSE

Oct 2012 - July 2014

### Altrincham Grammar School for Boys

7 A\*'s, 3 A's and 2 B's including Mathematics and English

## EXPERIENCE

### Software Engineer

#### Intern

Jun 2019 - Oct 2019

### TripAdvisor

**-Java, HTML, JavaScript, SCSS, React**

- Went through a full software development cycle in an agile team beginning with intensive research, followed by design, implementation and maintenance.
- Successfully delivered multiple new features of a large enterprise project which involved engaging and presenting to 50 members of the department after each release.
- Managed to save the company thousands in revenue by identifying and fixing a bug on the payment related side of the TripAdvisor website.

### GCSE & A-level

#### Tutor

Jun 2015 - Dec 2018

### Self Employed

**-Java, C++, Python**

- Tutored over 10 students in GCSE and A-level computer studies, maths and physics.
- Organised and lead one-to-one and group sessions with a diverse group of students that varied in ability levels with predicted grades from D to A.
- Propelled 90% of these students to receive a grade of A\*/A/B in their GCSE or A-level exams.

## PROJECTS

### Source Code

#### Plagiarism

#### Detection

- Independently created a python software that used machine learning on large sets of data in order to detect source code plagiarism.
- Utilised neural networks and natural language processing in order to detect 15% more plagiarism cases than commercial software.

**-Python, HTML, PHP, CSS, Scikit-learn, TensorFlow**

### Virtual Assistant

#### Trading Chatbot

- Led a small team to create a Chatbot using IBM Watson to provide answers to a user's queries on the stock market.
- Implemented algorithms that employed caching, in addition to carefully picked heuristics, to tailor the Chatbot's answers to the user's previous queries and provide helpful suggestions.
- Selected as one of the top 5 out of the 30 participating groups by Deutsche Bank.

**-PHP, HTML, Materialize, IBM Watson, MySQL**

## LEADERSHIP &

## AWARDS

- **Achieved a top 15 score** out of over 120 computer science students participating in a machine learning Kaggle competition that involved the classification of stars.
- **SU54 Africa Tech '19 - Overall Winner:** A 54-hour Hackathon that involved pitching a fin-tech solution to a problem in Africa to a panel of investors.
  - Involved developing a prototype mobile application using React Native.
  - Came first overall out of 12 teams and came in second place for the best pitch.
  - Invited by Barclays to present the idea at the Future Banking conference.
- **Head Charity Officer - University Basketball Club** : Raised £600+ for disabled children.
- **Achieved Gold in UK Senior Mathematical Challenge**

[See more projects: theurbancoder.co.uk](https://theurbancoder.co.uk)

## EXTRA -

## CURRICULAR

- Oxford Hack 2019 - Hack the Midlands 2019 - Capture the Flag - Basketball Club Captain