

Yousuf Mohamed-Ahmed

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LINKS

Github:// [ymohamedahmed](#)
LinkedIn:// [yousufmohamedahmed](#)

SKILLS

LANGUAGES

Java • C# • Python • Groovy • Standard ML • Prolog

TECHNOLOGIES

Protobuf • Kubernetes • Numpy
Spock • Pandas • AWS • Keras

ACHIEVEMENTS

ACADEMIC

600/600 in Mathematics A-Level
589/600 in Further Maths A-Level
Gold in UKMT Senior Maths Challenge

PUBLIC SPEAKING

LAMDA Grade 8 (Gold) : Distinction

SOCIETIES

CS SOCIETY

FORMER PRESIDENT (2016-17)

- Introduced younger students to basic ideas in CS
- Improved my ability to articulate technical ideas

COMPETITIONS

PROGRAMMING

- UKIEPC 2017
- Hack Cambridge
- Google HashCode 2018

EDUCATION

UNIVERSITY OF CAMBRIDGE

BA IN COMPUTER SCIENCE

Expected June 2020

- 1st Year Courses including: Functional Programming, Object Oriented Programming, Databases, Algorithms, Machine Learning, Mathematical Methods, Scientific Computing
- 2nd Year Courses including: Concurrent and Distributed Systems, Foundations of Data Science, Further Java, Programming in C, NLP
- 3rd Year Courses including: Data Science, Computer Vision, Machine Learning and Bayesian Inference
- Dissertation: "Remote heart rate estimation from video": using Computer Vision and Machine learning techniques, we can infer the heart rate of a user simply from changes in the colour of their face using a regular smartphone camera.

READING SCHOOL

2010-2017 | Reading, UK

- GCSEs: **11A*s, 1A**
- AS Levels: **6As** : Maths, Further Maths, Physics, Computer Science, Chemistry, Additional Maths
- A Levels: **4A*s** : Maths, Further Maths, Computer Science, Chemistry, Advanced Extension Award in Maths (**Distinction**)

EXPERIENCE

G-RESEARCH | SOFTWARE ENGINEERING INTERN

Jun 2019 – Sep 2019 | London, UK

- Created a Python package for researchers to interact with a large vectorized calculation application, streamlining a very tedious workflow.
- Replaced a legacy binary serialisation library to Protobuf
- Developed a Jupyter notebook extension from scratch to enable easy exploration of the analytics available for computation
- Ported over a legacy application to .NET core to make it cross-platform. Packaged as a dockerized application and deployed to a Kubernetes cluster

INTUIT | SOFTWARE ENGINEERING INTERN

Jun 2018 – Sep 2018 | London, UK

- Worked as a part of the team, on redesigning a polling system to use message consumption in Groovy
- Strong emphasis on TDD and agile development

PROJECTS

MORTIMER | CHESS ENGINE WRITTEN IN JAVA | SOLO PROJECT

- Wrote a chess AI from scratch as a part of my Computer Science A-Level
- Implementation of the minimax algorithm and alpha-beta pruning
- Awarded 74/75

VTP5 | A VOCAB TESTING PROGRAM | GROUP PROJECT

- Designed to aide students in learning new vocabulary
- Enabled teachers to set vocabulary homework digitally
- Students could send back digital certificates upon completing the work
- Various features such as flashcards and hangman games