

# ADEDEJI ADEPETUN

27, Barnaby Rudge – CM1 4YG – Chelmsford

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## PROFILE

A recent graduate with a Distinction in Advanced Computer Science from the University of Manchester and a 2.1 in Mechanical Engineering from the University of Sheffield. Possessing relevant academic and technical experience gained during my academic degrees.

Able to balance competing priorities having worked part-time during my undergraduate degree. Looking to secure a graduate role which will provide industrial exposure and the opportunity for career progressions.

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## EDUCATION

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| 2016 – 2018 | <b>MSc. Advanced Computer Science</b> , <i>Distinction</i> , University of Manchester.   |
| Thesis      | Piquet: An AI program that plays a game of Piquet using the Information Set Monte Carlo Tree Search algorithm and heuristic domain knowledge.          |
| 2013 – 2016 | <b>BEng Mechanical Engineering</b> , <i>2:1</i> , University of Sheffield.   |
| Thesis      | Full Scale 40MW Coal Burner design: Design of a full scale coal burner limiting coal combustion NO <sub>x</sub> emissions using ANSYS Fluent analysis. |
| Awards      | Undergraduate Award for Academic Achievement   |

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## WORK EXPERIENCE

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| October 2015 – June 2016 | <b>Teaching Assistant</b> , <i>University of Sheffield</i> , Sheffield, United Kingdom.<br>Mathematics for Engineering Modelling, Computational and Numerical Methods. <ul style="list-style-type: none"><li>Assisted in the grading of module lab work.</li><li>Explaining foundational concepts to students.</li></ul>   |
| July – September 2015    | <b>Mechanical Engineering Intern</b> , <i>Bristow Group</i> , Lagos, Nigeria.<br>Worked with the Bristow Aviation Technical Services (BATS) branch of the company. <ul style="list-style-type: none"><li>Performed maintenance checks on Sikorsky helicopters under the supervision of a senior staff member.</li><li>Organised the maintenance timetable for the helicopter hangar.</li></ul> |

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## INTERESTS

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| October 2014 – July 2016   | <b>Mechanical Engineering Academic Representative</b> , <i>Mechanical Engineering Society</i> , University of Sheffield. <ul style="list-style-type: none"><li>Represent student interests to the academic department.</li><li>Acted as a liaison between the student body and the academic staff.</li></ul>                      |
| September 2014 – July 2015 | <b>Committee Member</b> , <i>International Students Committee</i> , University of Sheffield. <ul style="list-style-type: none"><li>Volunteered for the World Week parade, Language festival, International Cultural Evening.</li><li>Helped with advertisements of committee projects, increasing the project outreach.</li></ul> |

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## VOLUNTEERING

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|---------------------------|---|
| September 2014 – May 2016 | <b>Peer Assisted Study Session Leader</b> , <i>University of Sheffield Career Services</i> , University of Sheffield. <ul style="list-style-type: none"><li>Member of the pioneering PASS team and created a strong and viable foundation for the PASS initiative.</li><li>Provided mentorship for several undergraduate students in the Mechanical Engineering department.</li></ul> |
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## PROJECTS

### Academic

#### **"What's that pet?" application.**

- Predicts the type of pet from a picture using a convolutional neural network.
- Languages used: Python, numpy, TensorFlow, Javascript, JQuery, HTML, CSS.

#### **Journal management web application.**

- Web application that manages a library of academic journals.
- Used a agile and test-driven development approach.
- Languages and frameworks used: Python, Flask, HTML, CSS, Javascript, d3.js.

### Personal

#### **A\* Pathfinding Visualisation Application.**

- A Java Swing application for the visualisation of the A\* pathfinding algorithm.
- Languages used: Java, Swing, A\* pathfinding algorithm.

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## SKILLS

**Self-taught,** *Java, Python, Javascript, SQL, HTML, CSS.*

**Academically-taught,** *MATLAB, SPARQL, XML, Flask, JQuery.*

**Intermediate Knowledge,** *C#, PHP, AngularJS, React, Bootstrap.*