

# Carlos Miguel Pina Vaz Gomes

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## Education

- University of Manchester - Computer Science 2016 - present
- Second year completed with 89% average
  - **Professor's Prize**, awarded to the best performing second year student in Computer Science
  - Important modules: OOP in Java, Software Engineering, Distributed Computing, Computer Networks, Advanced Computer Graphics, Symbolic AI, Machine Learning and Optimisation, Algorithms, AI and Games
  - Competent in Java, Python, C and JavaScript
- CLIB - Colegio Luso Internacional de Braga 2012 - 2016
- A Levels - A\* in Mathematics, Physics and Computing
  - Fluent in English, Portuguese and Spanish

## Work experience and projects

- Third Year Project - Image Colourization 2018-present
- Working on understanding the problem of colourizing black and white images using a convolutional neural network
  - Working on the design of a solution that can achieve more realistic results
  - **Python, Tensorflow, Keras, Google Cloud**
- HackUPC 2018
- Developed a Google Chrome extension that evaluates if the news article currently displayed by the browser is likely to be fake news
  - Developed the machine learning model as well as a flask-restless server to communicate with the extension and perform the predictions
  - **Python, Scikit-learn, Flask, Google News API**
- Summer internship at i2S 2018
- Worked in the data analytics team, learning about agile development techniques.
  - Developed a prototype for the visualization of business process workflows, working with a graph database and JavaScript data visualization libraries.
  - **Javascript, Neo4j, Java**
- PASS Leader at The University of Manchester 2017-2018
- Tutored first year CS students, developing communication and mentoring skills.
- Stendhal 2017
- Worked with the open source game Stendhal, solving bugs and implementing new features. Dealt with large code bases and developed skills in unit testing and debugging as well as version control and continuous deployment technologies.
  - **Java, Jenkins, Git**

## Volunteering

- Habitat for Humanity 2015 - 2016
- Built houses for disadvantaged families in Portugal, developing teamwork skills
- Portuguese Food Bank 2012 - 2016
- Warehouse worker, developing organisational and management skills