

Edwin Onuonga

Computer Science @ University of Edinburgh

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Education

BSc Computer Science

2016 - 2020

School of Informatics, University of Edinburgh

Prospective first class honours graduate.

Relevant courses: Machine Learning and Pattern Recognition, Machine Learning Practical, Introductory Applied Machine Learning, Algorithms + Data Structures and Learning, Foundations of Natural Language Processing, Processing Formal and Natural Languages, Database Systems, Extreme Computing

Activities: Computing and Artificial Intelligence Society (CompSoc), Transhumanism Society

GCSEs + GCE/A-Levels

2009 - 2016

The English College, Dubai

Achieved GCE/A-Level grades: A*AB (Mathematics, Physics, Computing)

Activities: Heriott-Watt Programming Challenge, ICT department assistance

Projects

- **Sequentia** (github.com/eonu/sequentia): Developed a machine learning package for the classification of isolated temporal sequences such as gestures or pen-tip trajectories. Created as part of my Honours project research involving the use of sequential classifiers such as Hidden Markov Models and techniques such as Dynamic Time Warping for automatic detection and recognition of head gestures in motion capture data. (Python, NumPy, Pomegranate)
- **Eucalypt** ([github.com/eucalypt-framework](https://github.com/eonu/eucalypt-framework)): Designed, built and currently maintaining a flexible micro-framework and application generator for streamlining the process of creating structured MVC-style Sinatra web applications. (Ruby, Sinatra, ActiveRecord)
- **Deeper Blue** ([github.com/deeper-blue](https://github.com/eonu/deeper-blue)): Produced the front and back-end code necessary for an assistive chess-playing robot aimed at making chess played on a physical board more accessible towards the disabled, by allowing moves to be entered through an interactive web interface. (Python, Flask, React.js)

Skills

- **Languages:** Ruby, Python, SQL, JavaScript, R
 - **Markup and others:** HTML/CSS, Markdown, LaTeX, YAML, JSON, XML
- **Libraries:**
 - **Ruby:** Sinatra, Rails (Limited), ActiveRecord, Thor, Nokogiri, Rake, RSpec
 - **Python:** NumPy, TensorFlow/Pytorch, Pandas, SciKit Learn, SciPy, Matplotlib, Seaborn, Flask
- **Operating systems:** macOS, Linux
- **Technologies:** Git(Hub), Bash/ZSH, Hadoop MapReduce

Voluntary experience

Web Developer

2017 - 2018

Edinburgh University Transhumanism Society

Responsible for designing the society's website and content management system for events, and managing/maintaining the society's online presence through the website.