HARRISON PIM

harrison-pim
@hmpim

EDUCATION

University College London (UCL) - MSci Physics, 2:1 2012-2016
The Windsor Boys' School - A-Level Physics (A), Maths (A), Design (C) 2007-2012
- 13 GCSEs between A*-B

EMPLOYMENT

Data Science Intern - Great Little Place Jul- Sep 2015
Acted as lead data scientist. Extracted & visualised insights from vast datasets in order to stimulate growth and improve the user experience. Researched, developed and documented algorithms driving *Columbus*, the app's ranking and recommendation system.

Private Academic Tutor 2011 -
Developed a passion for working on a small scale in a focused, personal manner.
Helped others to achieve their goals by sharing knowledge, experience and enthusiasm.

PROJECTS

Developed a back-end item ranking system 2015
Designed and implemented algorithms used to automatically categorise and quantify the quality of an item upon its submission to the app. Made use of REST APIs to assign an initial score which was then augmented according to user behaviour. This allowed generic recommendations to be made to users based on places' perceived quality.

Developed a recommendation system based on machine learning methods 2015
Extended the aforementioned ranking system to ascribe 'taste' to users based on behaviour within the app. Then created a successful, user-specific recommendation system despite working with unusually sparse datasets.

Modelling correlations between H_2O fragments on Si 2015-2016
Simulated patterns of adsorbed H_2O clusters on Si. A model of adsorption was defined, which may find uses in fabrication of atomic scale devices or quantum computing. Involved heavy use of UNIX and HPC facilities. Planned submission to academic journals.

Fabrication of a high precision/low cost Rn detector 2014-2015
A practical group project. Involved aspects of particle physics theory, electrical engineering, cleanroom device fabrication, and data capture & analysis using java and python.

COMPUTING

Languages: Python, Java, Matlab, Mathematica, SQL
Data Visualisation & Presentation: D3.js, R (ggplot2), Python (matplotlib), LaTeX
Operating Systems: Chrome OS, Linux, UNIX, Windows, OS X

INTERESTS

TECH - Maintain a high level of technical literacy by staying up to date with latest developments, news and releases
FILM - Member of ICA, Young Barbican and Picturehouse, and have worked at several cinemas and pop-ups over the last few years
EFFECTIVE ALTRUISM - Committed to redistributing at least 10% of my income through effective channels, primarily those highlighted by data-driven approaches at givewell.org

FURTHER INFORMATION

Academic and professional references, transcripts, theses, reports and publications all available upon request.