TAREK ALLAM

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EDUCATION

MSc Computer Science
University College London, University of London, 2014 to *present*

> *Optional Modules* Functional Programming, Databases, Computer Music.

> *Additional Lectures & Courses* Research Computing with C++, Neural Networks & A.I., Business Analytics. Introduction to R and Statistics.

MSci Astrophysics Upper Second Class Honours Masters Degree (2:1)
Royal Holloway, University of London, 2007 - 2011

RELEVANT EXPERIENCE

Chime. ATOS IT Challenge   November 2014 - Present
Back-End Developer - Currently top 4 in global competition   *London*

· To develop an internet connected intercom system within a team of 5.
· To write effective Bash and Python scripts that would automate configuration of the product upon start up. Integrate modern web technologies such as WebRTC with the hardware.

UCL E-Learning   October 2014 - Janruary 2015
Front-End Developer   *London*

· To develop an off-line web application using JavaScript as well as HTML5 local storage. Project conducted as part as COMPGC02 - Apps Design Module in a team of 3.

Royal Holloway Observatory, Dept. Physics, RHUL   October 2010 - March 2011
MSci Major Project   *Egham, Surrey*

· To look at how light from stellar objects can be analysed to deduce certain properties of such objects. In the project a v-VIEW II fibre optic spectrometer with a 12 LX200GPS Meade Schmidt-Cassegrain Telescope was used to observe the spectrum of light from a star and nebula. The data received was then understood by building analytical codes written in Python. Throughout the project libraries such as Numpy, Scipy and Mathplotlib were used as tools to extract data from the images and allow analysis of the data.

John Adams Institute, Dept. Physics, RHUL   July 2010 - August 2010
Summer Research Intern   *Egham, Surrey*

· To develop visual representations using Python of TM & TE modes that occur within cylindrical accelerator cavities. These were represented in 2-dimensions using Python's Mathplotlib and in 3-dimensions using Python codes embedded in Paraview.

TECHNICAL STRENGTHS

Computer Languages	Python, Java, Haskell, Miranda, AWK, JavaScript, Bash, SQL, PHP
Protocols & APIs	XML, JSON, MVC, RESTful
Databases	MySQL, Microsoft SQL and NoSQL's such as Mongodb
Tools	Git, Vim, TMUX, LaTeX, UNIX Command Line

References available upon request