Abdalrahman Abohalima

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personal website

OBJECTIVE STATEMENT

A self-taught python developer with a knack for web development and star gazing. I am seeking a career in python development that will allow me to empower decision makers, facilitate change and enhance results. After developing proficient knowledge of python programming during my masters, I received two internships with a professor at MIT. I developed a python based web application that allows astronomers to access an SQL database containing a vast amount of information pertaining to metal-poor stars. In addition to my programming skills, I will also bring a diverse perspective to the workplace as I have studied abroad in Sweden, Egypt, and briefly in Germany. Overall, I am a lover of logic, adept with numbers, an independent thinker and a problem solver.

WORK EXPERIENCE

Python developer, MIT physics department, USA   Jun - Aug 2017
Developing a python interface with an SQL database for Prof. Anna Frebel's research group.

Database developer, MIT physics department, USA   Jun - Aug 2016
Curated a database for metal-poor stars with a Python based web application. In collaboration with Prof. Anna Frebel from MIT, funded by the Joint Institute for Nuclear Astrophysics (JINA). Access JINAbase at jinabase.pythonanywhere.com

EDUCATION

M.Sc. Astrophysics, Lund University, Sweden   June 2017
Supervisor: Dr. Louise Howes.
Thesis: Neutron - capture elements in the early universe.

B.Sc. Physics, Alexandria University, Egypt   June 2013
Supervisor: Dr. Magdy Alabshehy.
Thesis: The constituents of the interstellar medium.

HONORS & AWARDS

Lund University global scholarship; masters degree tuition fees.   2015 - 2017
Scholarship awarded on academic merit basis.
Physics honors program, Alexandria University   Jan 2012 - Jun 2013
Selection based on academic achievements, only 2 students joined the program my year.

TEACHING

Teaching Assistant, Alexandria University, Egypt   Sep 2013 - Jan 2014
Teaching and grading laboratory physics for first year science major students.

Physics instructor,   Sep 2013 - Jan 2014
Arab Academy for Science, Technology & Marine Transport, Egypt
Teaching laboratory physics for first year engineering major students.

SKILLS

Python, Matlab, and Linux.   Flask web applications, HTML/CSS, and Javascript.
SQL, SQLAlchemy, Pandas, Excel, and Bokeh.   LaTeX, Microsoft office, and Pages.