

Amnah Abdelrahman

(602)668-6101

www.linkedin.com/in/amnah-abdelrahman

PROFESSIONAL SUMMARY

- Experience of data processing and using predictive modeling.
- Implementing forecast model and generate graphics.
- Knowledge of object oriented and programming language concept.
- Passionate university Teaching Assistant by delivering a range of teaching and assessment activities including tutorials directed towards the delivery of subjects (Programming languages, Algebra, primary statistical and special functions, Math methods) at the undergraduate level.

Key Skills

- Computer Programming Language (Java), VB.Net, python, C/C++
- Application Software:
Intermediate MySQL, Oracle 9i, R-Studio, Zeppelin Notebook.
Advanced Joomla, L^AT_EX, Sage, Django, GitHub, FrontPage, JupyterLab, Dreamweaver.
Cloud environments: IBM cloud, Amazon Web Services.
- Computer Skills: **OS** Unix/Linux (RedHat and Ubuntu), WindowsTM **Office suites** MS Office (Word, Power Point, Excel, Publisher, Outlook)
- Data analysis, supervised machine learning, regression, ensemble method, model selection and evaluation.
- Planning and scheduling expertise.
- Strong experience and potential in teaching information technology.
- Excellent written and verbal communication skills.
- Instructional techniques
- Technical Support and Troubleshooting
- Demonstrated leadership and interpersonal communications potential.
- Demonstrated quality of academic work and practical and field experience.

PROFESSIONAL EXPERIENCE

Python Developer ENTUC, Plano, Texas – USA, 06/2016 - 11/2018

Clients that I worked with is **ClubCorp**:

- Implement forecasting model using **Scikit-Learn** to generate reports.
- Implement **Python** scripts to update content in the database and manipulate files.
- Implement **Pandas** and **NumPy** libraries for Statistical Analysis.
- Implement the **Python's modules NumPy, Pandas and Matplotlib** for generating graphical data's
- Implement Django framework for Developing web application.
- Created Forms, views, models using **Django**.
- Implement **RESTful** web services.
- Implement **Django** configuration to manage URLs and application parameters.
- Executed various **MYSQL** database queries from **Python** using **Python-MYSQL** connector and **MySQL** db package.

Mathematics/ Computer Science Lecturer University of Tabuk, Tabuk - Saudi Arabia, 08/2015 - 01/2016

- Planned, prepared, and delivered lessons included in Mathematics and computer science courses for 244 students.
- Assessed students' strengths and weaknesses and planning teaching instructions accordingly.
- Developed and delivered lecturer in easy to understand way.
- Researched and prepared teaching materials and demonstrated each logical step in computer programming.

Mathematics/ Computer Science Lecturer University of Khartoum, Khartoum-Sudan, 08/2011 - 02/2014

- Taught Mathematics classes at the undergraduate level. In addition to the time spent in the classroom, I prepared classes, written lectures or create slides, created homework and exams, grade, and respond to student questions in person and through email.
- Supervised Undergraduate Research Projects (Unlike in many of the physical sciences, such projects usually often do not help mathematics professors with their own research. They engage in such projects to help students learn and to train them to do research.)
- Supervised Independent Studies or master's Theses for graduate students.
- Designed new courses at the undergraduate levels and updating the curriculum requirements for various degrees.

University lab Computer Specialist University of Khartoum, Khartoum-Sudan, 08/2009 - 12/2014

- Resolved all troubleshooting issues placed by administrators and staff.
- Configured and connected a wide range of technological equipment.
- Conducted necessary upgrades to hardware and software as needed.
- Trained administrators, educational coordinators, parents, teachers and students on the use of educational software and hardware.
- Introduced educational programs to the campus.
- Utilized and repaired all common office equipment.
- Maintained detailed and up to date inventory of all technological equipment.

PROJECTS

- Pre graduation project is accounting system for Natural Gas Company in a team of 3 using VB.NET and SQL server.
- Graduation project monitoring system using mobile agent carried in a team of 3. The project included design mobile agent to monitor an academic lab.
- Master project High Capacity Embedding Method Using Advanced PVD Method for Image Steganography.
- Master project Forecast use of a City Bikeshare System, the project includes data analysis and prediction models.

EDUCATION

- **Master of Science in Computer Science, *University of Texas at Arlington*. 08/2019 – Present**
- **Master of Science in Mathematical Science, *African Institute for Mathematical Sciences, Tanzania* 2014 – 2015**
- **Master of Science in Computer Science, *The University of Khartoum, Sudan* 2010–2011**
- **Bachelor of Science in Mathematics and Computer Sciences, *The University of Khartoum, Sudan* 2008 - 2009**

Further Education

- IBM Data Science Professional Certificate, *Coursera*, 2019
- Machine Learning, Stanford University, *Coursera*, 2013

PROFESSIONAL DEVELOPMENT/AFFILIATIONS

- **Awards** - University of Khartoum Teaching Assistant Administration M.Sc. Scholarship, Sudan. **2010**
- **Awards** - Next Einstein Initiative Scholarship for the African Institute for Mathematical Sciences (AIMS). **2014**