Tomi Aina . Jarvis Consulting

I currently work as a software developer with Jarvis consulting, where I work on different projects on Linux cluster management, Java applications, spring boot REST API, and others. I am also completing a Ph.D. in Electrical Engineering. My research is focused on using computer vision techniques to diagnose cervical cancer lesions found in females. I am proficient in data analysis and providing insights to businesses using data. I have experience teaching undergraduate and postgraduate student.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git

Competent: Pandas, Scikit-learn, Machine Learning, Deep Learning, Data Analysis

Familiar: Google Cloud Platform, MATLAB, Computer Networking, Technical Writing, JAVA

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_TomiAina

Linux Cluster Resource Monitoring App [GitHub]: Implemented a Minimum Viable Product (MVP) that stores each server/node's hardware specifications and monitors resource usage (e.g. CPU usage) in real-time. The data is stored in an RDBMS database (PostgreSQL) which can be used for reporting and, in the future, resource planning.

Core Java Apps [GitHub]:

- Twitter App: Not yet started
- JDBC App: Not yet started.
- Grep App: Almost completed

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Development of a deep-learning based cervical screening system: Developed a Computer Vision-based- system that can detect cervical cancer lesions using a mobile phone. A mobile application is developed that can automatically screen cervix images in real-time. It was designed to aid screening, particularly in low-resource regions and could potentially reduce the prevalence of cervical cancer in these regions.

Optimization of Household Energy Management System: Developed a Household Energy Management System that aims to minimize customers' electricity bills by predicting the operation time of appliances in the home with the real-time electricity price and renewable energy resources integrated with the home.

Professional Experiences

Software Developer, Jarvis (2020-present): Developed various projects such as cluster monitoring, Grep app e.t.c using tecchnologies such as Git, Linux,SQL,dockerr among others. Familiar with scrum/Agile methodologies.

Program Instructor, Nile University of Nigeria (2019-2020): Developed curriculum and taught courses in machine learning, introduction to Electrical Engineering and computer programming. Led the team involved in transitioning the team from physical and online school during the pandemic in 2019. Involved in a couple of administrative and accreditation exercises in the Faculty.Spearheaded the initiation and assessment of data-driven projects whichwere designed in helping students maximize their skills

Data Scientist, KETT Automobile (2016-2017): Provided strategic insight to the business based on past data on best practices in reducing utility bills and investment diversification of the company.

Education

Nile University of Nigeria (2018-2021), Doctor of Philosophy, Electrical Engineering - Obtained a 5.0/5.0 GPA in the first year of PhD

The University of Birmingham (2014-2018), Master of Science, Electrical and Computer Engineering

Covenant University (2009-2014), Bachelors of Engineering, Electrical and Electronics Engineering

Miscellaneous

- Simplilearn: Data Science with Python
- Teaching Kids
- Home Renovations and Interior Decoration