ALIER RENG

Data science professional, statistician, and educator with over seven years of university teaching experience and about 5-year experience in healthcare analytics. Passionate about delivering quality data-driven results with efficiency and high accuracy. My research interests include data visualization with R Shiny, data science, deep learning, and natural language processing (NLP).



INDUSTRY EXPERIENCE

present 2021

Senior Data Analyst

LifePoint Health

Brentwood, TN

- · Data Stewardship: perform monthly data validation to ensure data accuracy before being pushed to PowerBI for hospitals' use.
- · Perform manual extraction of NHSN
- · CHOIS Mortality
- · and Truven data; clean and push the final reports to PowerBI."
- · Perform exploratory and predictive analysis with Python and R., Support and assist hospitals and the HSC departments with their data needs., Create and modify divisions and hospitals' NHSN Goals, MOR, and QOC reports and dashboards using R, Python, and PowerBI.

2021 2016

Data Analyst

LifePoint Health

Parentwood, TN

- · Cut QOC and MOR decks production time by 80% by automating reports with R Shiny.
- · Reduced data errors and optimized accuracy by automating CHOIS monthly mortality reports with R Shiny.
- · Used R to automate the CMS company-wide VBP, HAC Penalty, and MSPB reports extraction processes.

2010 TN"

Clinical Analytics Intern

Vanguard Health Systems

Nashville



♣■ TEACHING EXPERIENCE

Present 2020

Lead Instructor, Data Science Program

Jonglei Institute of Technology

Murfreesboro, TN

· Teach data science, elementary statistics, and introductory personal financial management courses with Python and R.

CONTACT

■ tongakuot@icloud.com

fongleiinstitute.com

github.com/alierwai **y** twitter.com/tongakuot

in linkedin.com/in/tongakuot/

SKILLS

Programming: R, Python, PySpark, SQL, HTML, CSS

♣ Tools: R Shiny, PowerBI, Cognos, MIDAS+, RStudio, Jupiter Notebook, Microsoft (Word, Excel, PowerPoint), Spyder, PyCharm, Visual Studio Code

>_ Framework: R Shiny, Bootstrap, Django, WordPress

🕏 R & Python Packages: Tidyverse, tidyquant, lubridate, clock, ggplot2, Shiny, ggrepel, pagedown, xaringan, stationery, papaja, RMarkdown, gt, knitr, tidymodels, tinytex, pandas, numpy, matplotlib, seaborn, scikit-learn, scipy, sympy, BeautifulSoup, bokeh, skimr, Spacy, NLTk

& Version Control: Github

Other: Data science. mathematics, statistics, teaching, data visualization with R Shiny, quantitative finance, machine learning (ML), deep learning (DL). natural language processing (NLP)

> Made with the R package pagedown.

The source code is available at github.com/tongakuot/ar_cv.

Last updated on 2021-10-21.

2016 2011

Lecturer

Middle Tennessee State University

- Murfreesboro, TN
- · Taught general math courses including plane trigonometry, applied calculus I, applied statistics/introductory statistics, finite mathematics, college algebra, mathematics for general studies (Mathematical Ideas), and Pre-Calculus (Pathways to Calculus).
- · Turned 'F' students into 'A' and 'B' students through active and participatory learning; used hands-on approaches to make students conceptualize mathematical concepts to be able to construct meaningful mathematical statements.
- · Helped challenged students to change their negative thinking into positive-possibility thinking through friendly coaching and mentorship.

2011 2009

Graduate Teaching Assistant

Middle Tennessee State University

Murfreesboro, TN

· Taught Applied Statistics and tutored both math and statistics.

2001

Classroom Teacher

Jebel Mara Primary School

• Kakuma Refugge Camp, Kenya

· Taught 8th-grade English and 7th-grade G.H.C (Government, History & Civic)



🖵 RESEARCH EXPERIENCE

2007 2006

Undergraduate Research

University of Texas at Dallas

Richardson, TX

- · Conducted LSAMP supported undergraduate research under Dr. Mohammed Abdelsalam at the University at Dallas and presented it at the University of Texas at El Paso.
- · Traced the Aswa Shear Zone using the Advanced Spaceborne Thermal Reflection and Radiometer (ASTER) Data and presented the findings during the LSAMP competition at the University of Texas at El Paso in 2007.

2007 2006

Undergraduate Research

University of Texas at Dallas

Richardson, TX

- · Conducted LSAMP supported undergraduate research under Dr. Mohammed Abdelsalam at the University at Dallas and presented it at the University of Texas at El Paso.
- Traced the Aswa Shear Zone using the Advanced Spaceborne Thermal Reflection and Radiometer (ASTER) Data and presented the findings during the LSAMP competition at the University of Texas at El Paso in 2007.



EDUCATION

2017 2016 MBA., Information Systems Management

LeTourneau University

O Longview, TX

ONLINE COURSES

Business Science: DS4B 202A-R: Shiny Developer with AWS; DS4B 101-R: Business Analysis With R: DS4B 201-R: Data Science For Business With R

Datacamp: Machine Learning Scientist with R; Data Scientist with R; Data Scientist with Python; Winning a Kaggle Competition in Python

Udemy: PySpark Essentials for Data Scientists (Big Data + Python); Web Scraping and API Fundamentals in Python 2021; Interactive Python Dashboards with Plotly and Dash; Master in Microsoft Power BI Desktop and Service NLP - Natural Language Processing with Python

AWARDS & HONORS

LifePoint Health Mercy Award (2020)

The University of Texas at Dallas

Louis Stokes Alliance for Minority Participation (LSAMP) Scholarship (2006 - 2007)

Richland College (DCCCD) Vice President's List (2005)



■ POSTERS AND PRESENTATIONS

the website.

2007

Tracing the Aswa Shear Zone using the Advanced Spaceborne Thermal Reflection and Radiometer (ASTER) Data

Poster & Oral Presentation, Undergraduate Research in Geology **♥** University of Texas at El Paso

· Write and maintain the company's legal documents, build and maintain

• Traced the Aswa Shear Zone using the Advanced Spaceborne Thermal Reflection and Radiometer (ASTER) Data and presented the findings during the LSAMP competition at the University of Texas at El Paso in 2007.