ALIER RENG

Data science professional, statistician, and educator with over 5-year experience in healthcare analytics and more than seven years of university teaching experience. Passionate and results-oriented data scientist with a proven record of project completion with efficiency and speed. Areas of interest include data visualization with R Shiny, data science, statistics, and natural language processing (NLP).

💼 INDUSTRY EXPERIENCE

Sr. Data Analyst
LifePoint Health 📍 Brentwood, TN

present | 2021

- Data Stewardship: perform monthly data validation to ensure data accuracy before being pushed to PowerBI for hospitals' use.
- Support and assist hospitals and the HSC departments with their data needs.
- Perform exploratory and predictive analysis with R and Python.
- Create and modify divisions and hospitals' NHSN Goals, MOR, and QOC reports and dashboards using R and PowerBI.
- Onboard and train new team members.

Data Analyst
LifePoint Health 📍 Brentwood, TN

2021 | 2016

- 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.

🖥 TEACHING EXPERIENCE

Lecturer
Middle Tennessee State University 📍 Murfreesboro, TN

2016 | 2011

- 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.

CONTACT

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- ⧉ github.com/tongakuot
- 🐦 twitter.com/tongakuot
- in linkedin.com/in/tongakuot/

SKILLS

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

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

›_ **Framework:** R Shiny, Django, WordPress

⚙ **R & Python Packages:** Tidyverse, tidyquant, lubridate, 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

ⴲ **Version Control:** Github

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

2011 | 2009

Graduate Teaching Assistant
Middle Tennessee State University 📍 Murfreesboro, TN

· Taught Applied Statistics and tutored both math and statistics.

🖥 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.

🎓 EDUCATION

2017 | 2016

MBA., Information Systems Management
LeTourneau University 📍 Longview, TX

2011 | 2009

M.S., Professional Science – Biostatistics
Middle Tennessee State University 📍 Murfreesboro, TN

2008 | 2005

B.S., Neuroscience
University of Texas at Dallas 📍 Richardson, TX

2005 | 2003

General Studies (Mathematics/PreMed/PrePharmacy)
Richland College (DCCCD) 📍 Dallas, TX

👤 LEADERSHIP AND COMMUNITY ENGAGEMENT

Present | 2020

President
Jonglei Institute of Technology 📍 Murfreesboro, TN

· Run the day-to-day activities of the organization.
· Plan and implement programs to advance the company's mission & vision.
· Write and maintain the company's legal documents, build and maintain the website.
· Teach data science courses with Python and R.

POSTERS AND PRESENTATIONS

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

· 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.