

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

present
|
2021



Sr. Data Analyst

LifePoint Health

📍 Brentwood, TN

- 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.

2021
|
2016



Data Analyst

LifePoint Health

📍 Brentwood, 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.



TEACHING EXPERIENCE

2016
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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.

CONTACT

✉ tongakuot@icloud.com
🌐 jongleiinstitute.com
🐙 github.com/tongakuot
🐦 twitter.com/tongakuot
in [linkedin.com/in/tongakuot/](https://www.linkedin.com/in/tongakuot/)

SKILLS

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

🛠️ **Tools:** RStudio, R Shiny, Jupiter Notebook, PowerBI, Microsoft (Word, Excel, PowerPoint), Spyder, 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

🔗 **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)





Made with the R package [pagedown](https://www.rdocumentation.org/packages/pagedown).

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

Last updated on 2022-01-08.




EDUCATION

- 2017
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2016
- **MBA., Information Systems Management**
LeTourneau University  Longview, TX
- 2011
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2009
- **M.S., Professional Science – Biostatistics**
Middle Tennessee State University  Murfreesboro, TN
- 2008
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2005
- **B.S., Neuroscience**
University of Texas at Dallas  Richardson, TX
- 2005
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2003
- **General Studies (Mathematics/PreMed/PrePharmacy)**
Richland College (DCCCD)  Dallas, TX



LEADERSHIP AND COMMUNITY ENGAGEMENT

- Present
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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.

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](#)

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)