

# 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 science, statistics, R Shiny, 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  
|  
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](mailto:tongakuot@icloud.com)  
🔗 [Portfolio](#)  
🔗 [cushanalytics.com](http://cushanalytics.com)  
🔗 [github.com/tongakuot](https://github.com/tongakuot)  
🐦 [twitter.com/tongakuot](https://twitter.com/tongakuot)  
in [linkedin.com/in/tongakuot/](https://linkedin.com/in/tongakuot/)

## SKILLS

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

🛠️ **Tools:** RStudio, Jupiter Notebook, R Shiny, PowerBI, Microsoft (Word, Excel, PowerPoint), 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, skimr, tidymodels, tinytex, pandas, numpy, matplotlib, seaborn, scikit-learn, sympy, BeautifulSoup, Spacy

🔗 **Version Control:** Github

💡 **Other:** Data science, statistics, mathematics, teaching, data visualization with R Shiny, time series, 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](https://github.com/tongakuot/ar_cv).

Last updated on 2022-01-21.



## 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.

## 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)