

Nakai Zemer

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Summary

As an experienced data analyst specializing in public safety, I use my professional experience and formal education in data science and mathematics to optimize public safety operations.

Education

- **Bachelor of Science in Data Science, Minor in Mathematics** Kennesaw State University, Expected 2026 (GPA: 3.92)
- **Associate of Applied Science in Cybersecurity** Chattahoochee Technical College, Graduated 2018 (GPA: 3.95)

Certifications

- Data Science: R Basics, HarvardX, 2021
- Cybersecurity, Chattahoochee Technical College, 2016
- CISCO Network Specialist, Chattahoochee Technical College, 2015
- CCNA, 2016-2019

Software

Microsoft SQL Server, SQL Server Reporting Services, Excel, RStudio, ArcGIS Pro, Git and GitHub DevOps.

Languages

R, T-SQL, HTML, CSS, Python, SAS, C++, MATLAB

Projects

[Fall Analysis](#)
[Fire Detector Analysis](#)

My work encompasses the whole data pipeline from form and database development to data analysis and visualization. I have produced over one hundred paginated reports, rigorous R analyses, and attractive and informative interactive reports and dashboards. Enthusiastic about enhancing public safety and decision-making, I am committed to data-driven strategies that improve community safety and operational efficiency for governmental and public-safety oriented organizations.

Skills and R Libraries

- Database and Web
DBI, odbc, jsonlite, httr, rvest, RCurl
- Data Cleaning and Manipulation
dplyr, tidyr, data.table, fuzzyjoin
- Inferential and Descriptive Statistics
car, psych, moments, rstatix, tidycensus
- Machine Learning and Data Mining
keras, tensorflow, caret, xgboost, randomForest
- Mathematical and Statistical Modeling
deSolve, lpSolve, markovchain, forecast
- Network and Graph Analysis
igraph, network, visNetwork, ggraph
- Report Development
quarto/RMarkdown, kable, reactable
- Spatial Data Analysis
sf, spData, tmap, raster, osrm, censusxy
- Text and Content Analysis
tm, tidytext, wordcloud
- Time Series and Forecasting
forecast, xts, zoo, fpp3
- Visualization and Dashboards
ggplot2, shiny, DT, plotly, leaflet

Work Experience

Cobb County Fire & Emergency Services (5 years and 9 months+)

- **Fire Data Analyst** September 2022–Present (1 year and 8 months+)

In addition to previous responsibilities:

- Developed a database for the management of historical and current fire apparatus capabilities and assignments to significantly improve the accuracy of historical data analysis.
- Developed a statistical model for predicting residential structure values and improved data collection for accurate fire loss reporting.
- Conducted R analyses of structure fire smoke alarms and falls for Safety Village and overtime cost estimates for a 2-week FLMA cycle consideration.
- Developed an additional 10 SSRS reports (141 total).
- Designed and deployed a new ImageTrend form for Fire Investigations.
- Implemented the NEMSIS 3.5 Patient Care Report (PCR) form according to National EMS Information System (NEMSIS) standards, optimizing EMS incident data reporting accuracy and compliance.

- **Fire Data Technician III** December 2019–September 2022 (2 years and 10 months)

In addition to previous responsibilities:

- Introduced R and RStudio for performing advanced data analysis, enhancing analytical models, and reporting tools. Managed R project DevOps with git and GitHub.
- Produced 40 additional SSRS reports (131 total), implementing more complex data integrations and analytical functions.

- **Fire Data Technician II** May 2019–December 2019 (8 months)

In addition to previous responsibilities:

- Initiated development of increasingly complex SQL queries, views, and custom data-marts to improve data processing and analysis.
- Developed 58 additional SSRS reports (91 total), focusing on detailed data analysis and departmental reporting needs.

- **Fire Data Technician I** August 2018–May 2019 (10 months)

- Managed ImageTrend Elite for fire and EMS incident report collection, including form development in compliance with governmental regulations and end-user support.
- Developed and optimized SQL queries across different server architectures (Oracle, MariaDB, MSSQL) for data analysis and reporting within SSRS and excel reports.
- Created and managed 41 SSRS reports to support operational decision-making.
- Delivered time-sensitive ad-hoc reports.
- Managed Visual Studio SSRS reports using Azure DevOps.

Various Organizations

- **Independent Information Technology Contractor** February 2015–August 2018

- Contracted with a managed services company supporting IT needs for a multi-branch pharmacy, a car dealership, and various industrial, civil engineering, and manufacturing companies.
- Performed maintenance on mission critical servers for clients of the managed service company.
- Responsible for website and webstore design, creation, and continuous maintenance for a CNC manufacturing start-up using HTML5 and CSS3.
- Designed graphics, technical documents, and instruction manuals for the CNC start-up.