

ABOUT THE SPEAKER

Greg Tinker

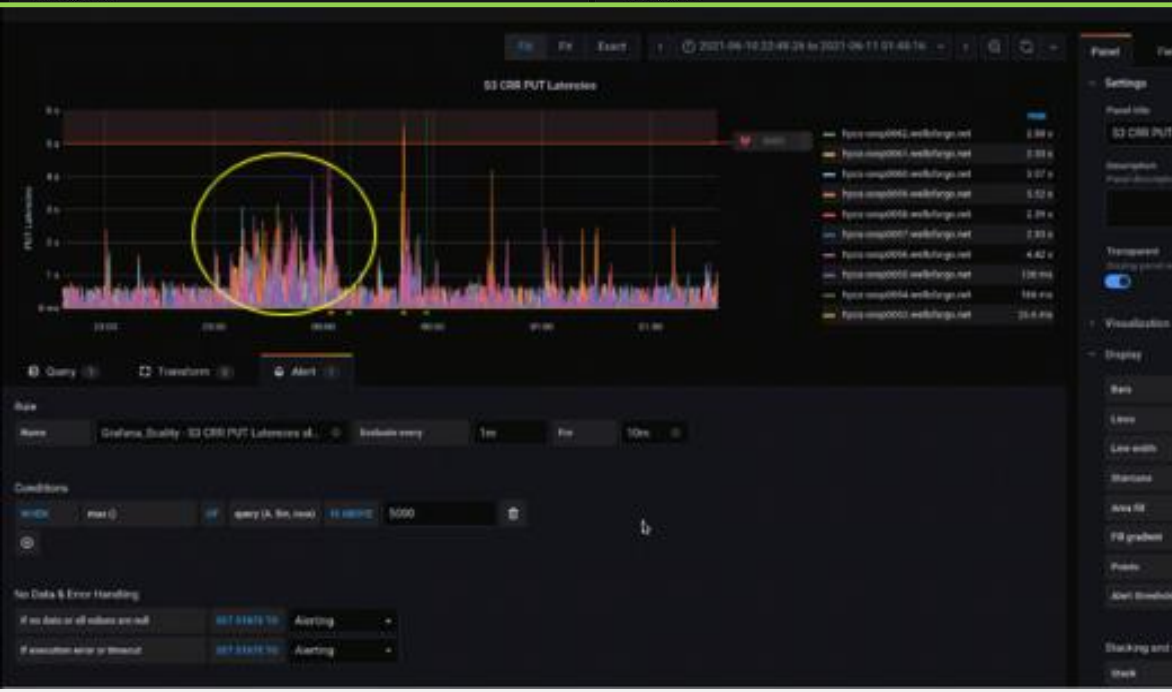
CTO of Anexinet

- Over 20 year in IT security, Automation, AI/ML, Digital transformation, application development
- Holder of multiple patents, disclosures, publications

Most importantly:

- Husband and best friend to my loving wife Kristen of 21 years and happy father of two - Ashley (14), and Ethan (10)





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CASE STUDY

Security, Fraud Detection Performance Monitoring +

A large North American financial company, has a massive object storage solution experience events that impacted business.

- Performance issues with no ability to identify root/cause
- Lack of visibility into key telemetry data metrics
- Massive deployment with inability to match scale of production environment
- Failure to detect fraud events and trigger corrective action in a timely manner

OUR SOLUTION:

Deploy a mission critical monitoring solution to identify and prioritizing metrics that provided actionable insights in real-time.

- Leverage Python scripts to extract various S3 data elements
- Develop elegant Grafana dashboard to display KPI's with connections to various data sources W/ Elasticsearch
- Identify performance issues in seconds/minutes, Not days/weeks
- L3 Support to provide immediate remediation when issues are identified
- Identify “events” and act with RPA



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CASE STUDY

Innovation, Security, AI – All with Automation

A large transportation company requested a HPC environment to ingest, process, and analyze video data as part of transportation safety concerns.

OUR SOLUTION:

HPC to handle Big Data Sources (Video / Pictures) W/ Real-time (RT) processing to deliver content feedback for adjustments in real space.

Power of Anexinet W/ Trusted partners to address covid-19 Response

A new rapid response COVID-19 knowledge discovery solution

Schema-less data mining for rapid COVID-19 knowledge discovery

Data sources

- Tweets (CSV)
- Web (XML/JSON)
- COVID-19 (CSV)
- NLM (nested JSON)
- CORD-19 (nested JSON)
- NER (nested JSON)
- Harvard (nested JSON)
- GISAID (nested JSON)
- Cyber (government) (CSV/Windows)

Enterprise mission-critical server



Raw

Dirty

Transformations

Data cleansing (raw to clean)



Clean

K/V



AEROSPIKE

CEP



Clean



S3-compliant cloud storage

HPE Apollo 4200 Gen 10 storage server x 6

Memory-driven ML pipeline instantiation

R/T analysis service

REST



SQL Client



VERTICA

Data visualization Exploration Mining

python, ARROW, DASK, Parquet

Feature selection Engineering NLP model development

Domain experts: M.D. Virologist Epidemiologist

timestamp, country, state, city, confirmed_cases, count
timestamp, country, state, city, confirmed_deaths, count
timestamp, country, state, city, confirmed_recovered, count