

# Matthew Sechrist

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## SUMMARY

Experienced software engineer with over 15 years working in the Defense IT field with skills in database programming, Windows system administration and networking. In personal projects, I create CI/CD pipelines using Terraform/AWS CDK, GitHub Actions and AWS infrastructure. I am looking to leverage my skills in a new role as a DevOps Engineer or Site Reliability Engineer.

## PROFESSIONAL EXPERIENCE

### NIWC Atlantic, Norfolk, VA — Computer Scientist, GS-13

SEP 2008 - PRESENT

Earned three promotions since SEP2008: Promoted to GS-11 on 11OCT2009, GS-12 on 28Aug2011, and GS-13 25MAR2012

Provide senior-level Database/Windows System administration support for a mission-critical Naval aviation maintenance application in the following areas:

#### → Reliability and Performance

- ◆ Resolve complex database incidents through writing SQL queries
- ◆ Interface with developers using Agile best practices creating stored procedures to increase database performance
- ◆ Write, test and perform Disaster Recovery procedures
- ◆ Write root cause analyses after incidents occur
- ◆ Troubleshoot secure military network issues using OpenSSL and CLI tools between different networks
- ◆ Recommend and implement Windows server and database performance enhancements to meet our system up-time goal in our Service Level Agreement (SLA)
- ◆ Execute and verify server configuration and security posture compliance
- ◆ Perform the following routine DBMS administration tasks on a suite of critical database servers:
  - Reorganizing the databases for optimization
  - Creating and verifying database integrity with referential keys, and indexes for query performance
  - Comparing and rectifying any data discrepancies between our data warehouse and our customer's DBMS systems
- ◆ Participate in on-call rotation
- ◆ Evaluate new tools and technologies for acquisition
- ◆ Solve unknown software bugs partnering with development and testing teams

#### → Leadership

- ◆ Lead post mortems with the team and engage with leadership detailing the lessons learned
- ◆ Hand-selected by Senior Management to lead the planning, integration and execution efforts for moving a new Naval web

## ONLINE

Website: [matthewsechrist.cloud](http://matthewsechrist.cloud)

LinkedIn: [linkedin.com/in/matthewsechrist](https://linkedin.com/in/matthewsechrist)

Blog: [blog.matthewsechrist.cloud](http://blog.matthewsechrist.cloud)

GitHub: [github.com/matthewsechrist](https://github.com/matthewsechrist)

## CERTIFICATIONS

CompTIA Security+

CompTIA Network+

ITIL Foundation

## LANGUAGES

Python, JavaScript, SQL, PowerShell, Bash

## TOOLS AND SKILLS

GitHub Actions, Cypress framework, Agile, AWS, Terraform, Linux, Docker

application to the cloud. Built the sustainment strategies for use once it would be operational and fielded

- ◆ Hand-selected to lead sustainment efforts during federal government shutdown
- ◆ Coach junior team members on database administration best practices and procedures
- ◆ Create training materials and provide over-the-shoulder instruction improving overall Incident throughput to meet our SLA goal of 48-hour Mean Time to Repair (MTTR)

◆

→ **Observability and Automation**

- ◆ Design, develop and maintain real-time reporting that measures data throughput and status monitoring for 300+ Windows servers showing potential network bottlenecks
- ◆ Created a Heads Up Display highlighting database/application issues in over 2,500 average incidents per month helping keep our SLA goal of 48-hour Mean Time to Repair (MTTR)
- ◆ Created a centralized automation platform for shell scripting/database updates for 300+ servers on different military networks
- ◆ Developed a critical report that pinpoints issues and trends in the on-boarding new personnel process resulting in cutting the average lead time from over 90 days to 11 days
- ◆ Automate proactive sustainment actions for data anomalies to decrease incident creation by 10%

## PROJECTS

### Next Read— Author recommendation website

<https://matthewsechrist.cloud/nextread.html>

I created the NextRead website as a recommendation website that finds authors who wrote/are mentioned in book endorsements. This project uses AWS serverless best practices utilizing AWS Step Functions and multiple AWS Lambda functions that extract author information from book descriptions pulled from the Google Books API.

### Cloud Resume Challenge— Serverless Portfolio website

<https://matthewsechrist.cloud/>

I created my portfolio as a serverless website hosted on AWS infrastructure. The website uses a CI/CD pipeline of Terraform, GitHub repositories, Cypress testing framework and GitHub Actions.

## EDUCATION

### James Madison University, Harrisonburg, VA - Computer Science

MAY2007

Telecommunications Minor