

WALTER DEREZINSKI

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SUMMARY

A hands-on System and DevOps architect experienced with both development and operations. Creates simple and low-cost solutions to complex business requirements by collaborating with the customer.

- AWS
- AWS Cost Management
- Operational Analytics
- Automation
- Security
- Serverless Architecture
- 8 AWS Certificates
- System Performance and Scaling
- Maximizes Operational Velocity

PROFESSIONAL EXPERIENCE

INDEPENDENT CONTRACTOR, Atlanta, GA

2016 - Present

System and DevOps Architect

Providing expertise for companies looking to improve their utilization of AWS.

- Providing design and operational support for AWS services consisting of CloudFormation, IAM, EC2, Auto Scale Groups, Elastic Load Balancer, Kinesis, Route 53, S3, Lambda, CloudWatch, CloudTrails, DyanmoDB, SQS, SNS, and VPCs.
- Extensive integration experience with Terraform, ElasticSearch, Datadog, and PagerDuty.
- Automating with Node.js, bash, and Python.

IBM – Watson Advertising and Weather

Worked with the Cloud Migration team for AWS Cost Management and migration support from AWS to IBM Cloud.

- Reduced AWS spending by the \$3M annualized without requiring a change in architecture.
- Implemented an AWS tagging policy and compliance reporting system.
- Created a Jenkins automation pipeline for the build and release process for a terraform module repository.
- Developed 10 terraform modules to ease the transition cost from AWS to IBM Cloud.

The Weather Company

Worked with a 12-member data science group to establish a DevOps team, scale the architecture, and improve operational efficiencies.

- Reduced AWS monthly spending by 40% through Reserved Instance utilization, application right sizing, auto scaling groups, and reporting.
- Scaled an AWS ingest pipeline to handle more than 15T monthly events using Kinesis Firehose, SQS, Cassandra, EMR, Lambda, and S3 generating 72TB of monthly data across 600K files. Sustained a peak daily throughput of 1T events.
- Created a data pipeline architecture that allows for deploying new pipelines in minutes, parallel testing with live data, and automated blue/green upgrades.
- Created Elastic Kibana dashboards providing analytical insights into 30 different EMR pipelines that ran 55,000 jobs generating 1T rows of 32TB of data every month.
- Secured the data lake across 125 S3 buckets, 17M files, and PB of storage by implementing least privilege IAM polices.
- Designed and implemented a data lake metric trending and monitoring system leveraging AWS S3 events, Lambdas, elastic search, data dog, and pager duty.
- Stabilized a Big Data ingest pipeline of 2 billion daily events generating over 1,400 parquet files daily. Pipeline consists of AWS SQS, EC2 ASG, S3, and a Cassandra/Apache Spark cluster.

INDEPENDENT CONTRACTOR, CON'T

State Farm

Worked with company IT Architects, Security, and Business Analytics to develop a data lake based on AWS services.

- Designed a self-service access request system where data scientist could search the corporate data lake meta data, request access, get approval from management and data stewards, and automatically update their AWS IAM permissions allowing access in hours.

Turner Broadcasting

Worked to build a DevOps team, provide cloud architecture, and ensure data security in support of Turner's Cloud and Media Workflows organization.

- Designed and implemented a secure IAM policy for secure file transfers through AWS S3.
- Implemented cost management reporting utilizing Cloud Health, creating a tagging and taxonomy policy, and automated policy enforcement.
- Work with development and operational teams to migrate business process and technology into AWS.
- Provide system design for new server less video workflow based on AWS Lambda and DynamoDB.

ERICSSON, Atlanta, GA

2006–2016

System Engineer 4

2012 – 2016

System architect for the Technology Product and Portfolio Management team responsible for cloud strategy across AWS/OpenStack/Azure, infrastructure, platform stack, scalability, O&M, and documentation for 3 products. Collaborated with an international group of teams located in U.S., Canada, Sweden, and China.

- Member of the Ericsson Cloud and Infrastructure Architect Board; Ericsson Security Team; Ericsson Reusability Council; and the Joint Technical Forums with Red Hat, Oracle, HP, and Dell.
- Designed an application sharding solution that allowed the application to scale from 3 million subscribers to 40 million subscribers for AWS and OpenStack.
- Designed a cloud solution based on OpenStack that provided a migration strategy for embedded applications while adding functionality of automated elastic scaling and full upgrade rollback support.
- Managed vendor relationships with EMC, VMware, F5, SUSE, Symantec, Veritas, and Edgeware.
- SCRUM Product Owner for systems and platforms for 3 products and 8 international development teams.

Systems Engineer Manager 1

2009 – 2012

Managed a DevOps team responsible for the development of the Media Common Platform, CI/CD pipeline, product security, standardization, and cross product process improvement projects.

- Created a CI/CD pipeline that automated the delivery process and stopped application/platform drift.
- Reduced upgrade times by 90% with an automated product upgrade framework.
- Reduced overall platform and integration requirements by 50% by creating a common platform that reduced operating systems from 6 to 1 and hardware configurations from 13 to 3.

Senior Systems Engineer

2006 – 2008

System architect for the OpenStream product -- a Video on Demand management solution -- responsible for the hardware, operating system, third party components, and operational requirements.

- Reduced total system acquisition cost by 20% and increased system capacity by leveraging vendor resources and selecting standardized technologies.
- Streamlined system upgrade procedure resulting in a 90% reduction in customer service interruption to less than 15 minutes.

PROFESSIONAL EXPERIENCE CONTINUED

1992 - Present

See my LinkedIn Profile at [linkedin.com/in/waltde](https://www.linkedin.com/in/waltde) for my complete 30-year history.

EDUCATIONAL DEVELOPMENT

Master of Business Administration

Kennesaw State University Atlanta, GA

Bachelor of Science in Computer Science

Georgia Institute of Technology Atlanta, GA

ADDITIONAL RELEVANT INFORMATION

Certified SCRUM Product Owner

AWS Certificates

- AWS Certified Solutions Architect – Professional **May 2018 – May 2020**
- AWS Certified DevOps Engineer – Professional **May 2018 – May 2020**
- AWS Certified Security – Specialty **May 2018 – May 2020**
- AWS Certified Big Data – Specialty **May 2018 – May 2020**
- AWS Certified Developer – Associate **Apr 2018 – Apr 2020**
- AWS Certified SysOps Administrator – Associate **Apr 2018 – Apr 2020**
- AWS Certified Solutions Architect – Associate **Feb 2017 – Feb 2019**
- AWS Certified Cloud Practitioner **May 2018 – May 2020**

Georgia Tech Alumni Mentor

RPATH, Raleigh, NC

2010-2012

Enterprise Customer Advisory Board Member

Board providing strategic product direction for market positioning and feature development.