

WILLIAM CALLAHAN

Senior Cloud Software Engineer

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CERTIFICATIONS

AWS DevOps Engineer - Pro
AWS Security - Specialty
AWS Solutions Arch - Assoc
AWS Developer - Assoc
AWS Cloud Practitioner
GCP Cloud Digital Leader
Azure Fundamentals

LANGUAGES

C#	●●●●●
Python	●●●●●
JavaScript	●●●●●
Java	●●●●●
Bash	●●●●●
TypeScript	●●●●●
Clojure	●●●●●
CSS/SASS	●●●●●
C/C++	●●●●●

SKILLS

Clouds
AWS, Azure, GCP

Databases
MS SQL Server, OpenSearch, Redis, Memcached, DynamoDB, MySQL, PostgreSQL, DGraph, XTDB, Oracle

Frameworks
ASP.NET, Spring, React, Django

Big Data Tools
MSK, Kinesis, SQS, Glue, Athena

Other Tools
Jenkins, GitLab, GitHub, Nexus, Containers, Splunk, DataDog, NewRelic, CloudFormation, Terraform, SAML, OAuth, LDAP

SUMMARY

Cloud Software Engineer with ten years of experience designing and implementing scalable, high-performance multi-cloud architectures. Proven ability to lead technical teams to deliver mission-critical solutions of complex applications while improving security and reducing costs.

EXPERIENCE

Senior Cloud Software Engineer

ThorTech Solutions 📅 01/2018 - Present 📍 White Plains, NY

- Led software engineering teams of four in health, media, and public sectors on designing and implementing multi-cloud solutions, ensuring security, durability, and scalability
- Optimized live election API performance, ensuring consistent sub-200ms latency querying large dynamic datasets handling over 10-million daily global requests
- Reduced batch execution times by 90%, accelerating time to market from hours to minutes for multiple clients utilizing diverse databases
- Redesigned US election survey weighting platform, improving model accuracy and accelerating live election publishing to achieve accurate election forecasts
- Reimagined CI/CD pipeline to reduce build times by 60%, cost by 20%, and SCM vulnerabilities by 65%
- Architected distributed systems using AWS Lambda, ElastiCache, RDS, MSK, ECS, Kinesis, ELB, SQS, EC2, Elastic Beanstalk, SSM, OpenSearch, and VPCs
- Reduced cloud OpEx by 15% across four clients saving over \$127,000 per year

Squad Leader

Army National Guard 📅 09/2013 - 09/2022 📍 Danbury, CT

- Led an eight-soldier infantry squad, providing training, direction, and development for a successful deployment in support of Operation Enduring Freedom (OEF)
- Executed joint military missions among EARF CJTF-HOA, successfully strengthening international relationships for the first time in 20 years

Software Engineer

United Nations 📅 08/2016 - 12/2017 📍 New York, NY

Office for Disarmament Affairs

- Collaborated with multi-national stakeholders to define requirements for a dynamic forms application, leveraging Django, React, and MySQL
- Designed and implemented a scalable architecture to support global efforts in tracking illicit firearms trade to award multi-million aid packages to over 75 member states

Software Engineer Team Lead

Western Connecticut State University 📅 03/2015 - 01/2017 📍 Danbury, CT

- Mentored fellow engineers in the first student-led university software engineering team using Angular, Java EE, Spring, Oracle, MSAD, and JBoss
- Digitized university operations paperwork and timekeeping, saving over 30 employees one hour each daily

EDUCATION

M.S. in Data Science

Stevens Institute of Technology 📅 01/2024 - Present

B.S. in Computer Science, Minor in Security

Western Connecticut State University 📅 08/2012 - 12/2016