

WILLIAM CALLAHAN

Senior Cloud Software Engineer

me@callahanwilliam.com • linkedin.com/in/william-callahan • callahanwilliam.com • Bethel, CT

Summary

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

Skills

Clouds: AWS, Azure, GCP

Languages: C#, JavaScript, TypeScript, Python, Java, CSS, SASS

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

Frameworks: React, Redux, Django, Spring, Bootstrap

Tools: NodeJS, GitHub, CodePipeline, CodeBuild, Docker, CloudFormation, Terraform, Swagger

Experience

ThorTech Solutions

White Plains, NY

Senior Cloud Software Engineer

01/2018 - 03/2025

- Oversaw software engineering team of four across health and media clients to design and implement multi-cloud solutions, ensuring security, observability, durability, and scalability
- Reduced data processing execution times by 90% by optimizing SQL queries and indexing strategies across MS SQL Server and OpenSearch
- Optimized live election API performance in Clojure, ensuring consistent sub-200ms latency with 10-million daily global requests
- Redesigned U.S. election survey platform to be data-driven with C# backend and React/D3 frontend, enhancing forecast accuracy
- Built serverless application used to collect voting data from 400 concurrent users live on election night using VueJS, C#, DGraph, and SQL Server
- Acted as DevSecOps lead while reimagining the CI/CD pipeline to reduce build times by 44%, cost by 29%, and dependency vulnerabilities by 52%

United Nations

New York, NY

Software Engineer

08/2016 - 12/2017

Office for Disarmament Affairs

- Collaborated with multi-national stakeholders to define requirements for a dynamic forms application, leveraging Django, React, and MySQL
- Developed a scalable RESTful architecture to support global tracking of illicit firearms trade, enabling the allocation of multi-million dollar aid packages to over 75 UN member states

Western Connecticut State University

Danbury, CT

Software Engineer Team Lead

03/2015 - 01/2017

- 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
- Designed and implemented a reusable CSS theme adopted by multiple university teams to modernize the look and feel of legacy applications

Army National Guard

Danbury, CT

Squad Leader

09/2013 - 09/2022

- Led an eight-soldier squad, providing training, direction, and development for a successful deployment in support of Operation Enduring Freedom
- Utilized AWS Textract to digitize medical supply paperwork in order to track \$100,000 of medical equipment supporting the COVID-19 pandemic
- Executed joint military missions among EARF CJTF-HOA, successfully strengthening international relationships for the first time in 20 years

Certifications

AWS DevOps Engineer Professional

AWS Security Specialty

AWS Solutions Architect Associate

AWS Developer Associate

AWS Cloud Practitioner Associate

Azure Fundamentals

Education

Western Connecticut State University

B.S. in Computer Science, Minor in Security

08/2012 - 12/2016