Ash Isaac

Technical Leader in Cloud & DevOps

- IT/Cloud Architect, Engg. Manager (DevOps)

- AWS Certified Solution Architect (Professional)

Currently: Principal IT Architect at Federal Reserve Bank of Minneapolis.

□ ash@aisaac.io

https://aisaac.io

https://ashisaac.me

(612) 590-1491

♥ Minneapolis, MN

Profile

- 10+ years in Software Engineering, Architecture and Technical Leadership
- Enterprise Cloud (AWS/Azure), DevOps, Serverless, Containers & Microservices
- Experience in security & regulatory compliance for PII/PHI, HIPPA/FedRAMP/FISMA

Education

University of Madras, VIT

Bachelor of Electronics and Communications Engineering, 1991-1995

Certifications

Amazon Web Services: Certified Solutions Architect (Professional)

Amazon Web Services: Certified Developer (Associate)

Amazon Web Services: Certified Solutions Architect (Associate)

MongoDB University: M101X - MongoDB & MEAN Stack

Technical Skills

IT Leader in Cloud migration, Cloud-native development & DevOps. Experienced in architecting enterprise systems that are scalable, resilient & secure using serverless, containers & microservices.

Cloud (AWS & Azure)

AWS: VPC, IAM, EC2, RDS, S3, Route53, Lambda,

SQS, API Gateway

Azure: Azure DevOps, Pipelines, App Service,

Functions, SQL Database

Containers: Docker, Docker Swarm, Kubernetes,

EKS, ECS/Fargate, Batch

Server-side

Java: Spring Boot **Python:** FastAPI, Flask **Node.js:** Restify, Express, Hapi.js

PHP: Magento, Symfony, Slim

Databases & Tools

Datastores: Postgres, MongoDB, DynamoDB,

MySQL, MS SQL Server

SCM/Build: Bamboo, Jenkins, Stash, Git, Artifactory **Automation/ Tools:** AWS CDK, Terraform, Ansible,

Puppet, Packer, Vault, Consul

Testing: JMeter, Karma, Jasmine, Selenium

Frontend

Javascript: jQuery, KnockoutJS

Frameworks: Bootstrap, Zurb Foundation

Professional Experience

Principal IT/Cloud Architect

Federal Reserve Bank of Minneapolis

Period: since Nov 2019

Federal Reserve Bank of Minneapolis is one of 12 Federal Reserve Banks, serving 6 states of the Ninth Federal Reserve District.

- Advise 9th District VP/AVP/Directors of Treasury Retail Services, Research, InfoSec and Data Privacy business lines on IT/Cloud projects and initiatives as Lead Architect
- Architect on the TRIM (MyTreasury) AWS Cloud project with a specific focus on Security & Compliance
- Lead Architect on the Business Payments Coalition (BPC) eInvoicing Network project, which produced the <u>Open Source eInvoicing Onboarding Toolkit</u>
- Provide expert quidance & implementation recommendations on AWS/Azure Cloud, Hybrid and COTS/Enterprise software
- Design architectural and security patterns along with Information Security & Compliance including PoCs
- Drive DevSecOps adoption & Software Engineering best practices in Operations and Application Development Teams
- Formulate 9th District strategy for Cloud Migration, Data Management and DevOps Tooling

Engineering Manager & Cloud Architect

MedNet Solutions **Period:** 2014 - 2019

MedNet Solutions is a leading eClinical technology company offering a Cloud-based Enterprise Electronic Data Capture (EDC) SaaS eClinical platform. I managed the Platform & Operations team in charge of Release Engineering and Cloud Infrastructure.

- DevOps & Cloud automation on AWS (VPC, EC2, IAM, SQS, RDS, Route53, DynamoDB, S3, ECS/Fargate, SES, CloudWatch)
- Container orchestration using Docker Swarm & Kubernetes using Puppet and Terraform
- Serverless applications & Microservices using Node.js/API Gateway, Spring Boot/Docker
- Enterprise SaaS migration and performance, load and chaos testing.
- Cloud strategy, cost management, security and regulatory compliance

Owner/Principal Engineer

Data-Worx Consulting LLC **Period:** 2004 - 2014

Founded a software consulting firm, specializing in data-driven software for businesses.

- Launched BuyMage: Magento eCommerce integration the BuySeasons Direct® dropshipping program
- Architected MES applications for Production Scheduling and Shop Floor Management (Python/MySOL).
- Built TREK (.NET/MVC/WPF/SQL Server) a business application integrating with TigerPaw ERP.
- Authored custom Magento extensions and Developed REST APIs for RE/MAX Cayman Islands

System Analyst

CGI, Inc

Period: 1996 - 2002

- System Analyst and Team Lead
- Mainframe Business applications (DB2, Assembler, COBOL)
- Clients: Fingerhut Corp., EBSCO Subscription Services, DISCOVER/Novus Network Services

Staff Mentor

Segway/Campus Journey **Period:** 2002 - 2014

| • Mentoring students in social entrepreneurship at the U of M (Twin Cities) campus | | | |
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