

Ash Isaac

Technical Leader in Cloud & DevOps

- IT/Cloud Architect, Engg. Manager (DevOps)
- AWS Certified Solution Architect (Professional)

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📍 Minneapolis, MN

Currently: IT/Cloud Architect at [Federal Reserve Bank of Minneapolis](#).

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 Reviewer: *Magento Extensions Development (Jérémie Bouchet, June 2016)*
[Packt Publishing Limited](#)

Technical Skills

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

Cloud (AWS & Azure)

AWS: VPC, IAM, EC2, RDS, S3, Route53, Lambda, SQS, CloudWatch
Azure: Azure DevOps, Pipelines, App Service, Functions, SQL Database, Cosmos, API Management
Containers: Docker, Docker Swarm, Kubernetes, EKS, ECS/Fargate, Batch

Server-side

Java: Spring Boot
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: Terraform, Ansible, Puppet, Packer, Vault, Consul
Testing: JMeter, Karma, Jasmine, Selenium

Frontend

Javascript: jQuery, KnockoutJS
Frameworks: Bootstrap, Zurb Foundation

Professional Experience

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
- Provide expert guidance & implementation recommendations on AWS/Azure Cloud, Hybrid and COTS/Enterprise software
- Design architectural and security patterns along with Information Security & Compliance
- Drive DevSecOps adoption & Software Engineering best practices in Ops and App 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.

- 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
- DevOps pipeline using Bamboo/Jenkins with Ansible/Bash/Python
- 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

I started a software consulting firm in 2004, offering data-driven software development services for design agencies and businesses.

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

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 international students in social entrepreneurship at the U of M (Twin Cities) campus

