

# Ash Isaac

## Full-Stack Engineer

Cloud Engineer & Architect, AWS Certified Developer & Solution Architect (Associate)

**Employment:** Currently working at [MedNet Solutions](#) on an Enterprise SaaS software product.

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## Profile

- 10+ years in software engineering and technical leadership roles
- Amazon Web Services certified with experience in Cloud migration and Enterprise SaaS
- Experience with CI/CD, DevOps & Agile methodologies

## Education

### University of Madras, VIT

Bachelor of Electronics and Communications Engineering, 1991-1995

## Certifications

[Amazon Web Services: Certified Solutions Architect \(Associate\)](#)

[Amazon Web Services: Certified Developer \(Associate\)](#)

[MongoDB University: M101X - MongoDB & MEAN Stack](#)

**Technical Reviewer:** *Magento Extensions Development (J r mie Bouchet, June 2016)*  
[Packt Publishing Limited](#)

## Technical Skills

Experienced in architecting scalable, resilient, secure systems on AWS using Docker & Microservices. Practitioner of Agile software development, DevOps and Continuous Integration/Deployment.

### Amazon Web Services

**Services:** VPC, IAM, EC2, RDS, S3, Lambda  
**Automation/ Tools:** Terraform, Docker/Swarm, Vault, Consul, Puppet, Packer

### Server-side

**Java:** Spring Boot  
**Node.js:** Restify, Express, Hapi.js  
**PHP:** Magento, Symfony, Slim

### Databases & Tools

**Databases:** Postgres, MySQL, MS SQL Server  
**SCM/Build:** Bamboo, Jenkins, Stash, Git, Artifactory  
**Testing:** JMeter, Karma, Jasmine, Selenium

### Frontend

**Javascript:** jQuery, KnockoutJS  
**Frameworks:** Bootstrap, Zurb Foundation

# Professional Experience

## Cloud Architect

[MedNet Solutions](#)

**Period:** since Dec 2014

MedNet is a leading eClinical technology company offering a Cloud-based Enterprise Electronic Data Capture (EDC) SaaS eClinical platform

- Automated building of environments on AWS using VPC, EC2, IAM, RDS, S3, SES
- Architected Docker Swarm clusters using Puppet and Terraform
- Built CI/CD pipeline using Bamboo
- DevOps scripting using Bash, Python and Ruby
- Developed of Java microservices using Spring Boot/Docker on AWS
- Migrated Enterprise SaaS application to AWS
- Guided Performance, Load and Chaos testing
- Delivered 10x PDF generation capacity using Node.js microservices
- Cloud strategy and cost management
- Cloud security and secret management using Vault

## Consultant/Owner

[Data-Worx Consulting LLC](#)

**Period:** Since 2004

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](#)
- 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