

# Ash Isaac

## Full-Stack Engineer

Full-Stack Engineer, AWS Certified Developer & Solution Architect (Associate)

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

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📍 Minneapolis, MN

## 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 (Jérémie Bouchet, June 2016)*

[Packt Publishing Limited](#)

## Technical Skills

Experience designing scalable, resilient systems on AWS using Docker & Microservices. Practitioner of Agile methodology, TDD and Continuous Integration / Deployment.

### Amazon Web Services

**Services:** VPC, EC2, RDS, ECR, S3, CloudWatch, Lambda

**Automation/ Containers:** Terraform, Docker, Docker Swarm, Vault, Consul

### Server-side

**Java:** Spring Boot, Thymeleaf

**Node.js:** Restify, Express

**PHP:** Magento, Symfony, Slim

**.NET:** C#, WPF, MVC, WebAPI, EF, LINQ

### Databases & Tools

**Databases:** Postgres, MySQL, MS SQL Server

**SCM/Build:** Bamboo, Jenkins, Stash, Git, Artifactory

**Testing:** JMeter, Karma, Jasmine, Mocha, Chai

### Frontend

**Javascript:** jQuery, KnockoutJS

**Frameworks:** Bootstrap, Zurb Foundation

## Professional Experience

### Senior Web Software Engineer

[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

- Guided adoption and configuration of AWS services (VPC, EC2, ECR, RDS, CloudWatch, S3)
- Architected Docker Swarm environments on AWS using Terraform
- Integrated Bamboo, Consul and Vault into DevOps pipeline
- Developed and deployed Java microservices using Spring Boot/Docker on AWS
- Migrated enterprise SaaS application to AWS over 5 months
- Guided, modeled and analyzed performance, load and stress tests
- Upgraded Report Designer frontend (KnockoutJS/ MVVM architecture)
- Delivered 10x PDF generation capacity using Node.js microservices

#### **Presentations given to the engineering team:**

- Building Docker Swarm on AWS using Terraform
- Building Microservices in Node.js
- Code Modularization using Dependency Injection and the Service Layer Pattern
- Testing Javascript using Jasmine, Karma, Gulp and Phantomjs
- The Zen of Microservices

### **Owner**

[Data-Worx Consulting LLC](#)

**Period:** Since 2004

I started a software consulting firm in 2004, providing creative software solutions and end-to-end expert development and consulting services to design agencies, entrepreneurs and businesses.

- Launched BuyMage, a software product integrating Magento with the BuySeasons Direct® dropshipping program
- Architected bespoke MES applications for Production Scheduling and Shop Floor Management (Python)
- Built [TREK](#), a (.NET/MVC/WPF) business application integrating with TigerPaw ERP
- Developed REST API for Remax Cayman Islands
- Authored custom Magento extensions

Experience managing the entire software development lifecycle: system analysis & estimation, pricing & sales, project management, development, testing and deployment including client-facing presentations and ongoing software support.

### **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 entrepreneurship for social good
- Fund-raising, leading volunteer teams
- Speaking/presenting at student conferences

In 2002, I left my corporate IT job to work on staff with Segway, a non-profit organization on the University of Minnesota (Twin Cities) campus. I provided mentoring and counseling to college students, specifically in applying their education and skills towards combatting poverty, both locally and globally.