

# James Earlywine

Solutions Architect, MBA

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## SUMMARY

Solutions Architect with 17 years of experience designing, building, and supporting SaaS web applications across startups, national media, global insurance and risk analytics organizations.

Seeking a remote role on a well-connected team, as a Solutions Architect working primarily in the AWS cloud. I prefer to work in a culture that fosters radical honesty, curiosity and fun.

Skilled in architecting cloud-native, asynchronous, message-driven systems on AWS. Ask me the differences between reliable, robust and resilient! 😊

## CERTIFICATIONS

**AWS Solutions Architect - Professional**, Amazon Web Services (2025-2028)

**AWS DevOps Engineer - Professional**, Amazon Web Services (2025-2028)

**AWS Security - Specialty**, Amazon Web Services (2025-2028)

## TECHNOLOGY

### Cloud & Infrastructure (AWS)

- API Gateway, Lambda, ECS, ECR, EC2, ALB, ASG, S3, RDS, DynamoDB + Streams, OpenSearch/ElasticSearch
- Step Functions, EventBridge, SQS/SNS, SES, CloudFormation, SSM Config/Param/Secrets Management
- CodeBuild, CodePipeline, Cognito, IAM + SCP, Well-Architected Framework, Resiliency Hub, Security Hub

### Backend Development & Architecture

- Languages and Frameworks: TypeScript/Javascript, Node.js, Express, Java 8, Spring Boot, Spring Batch, Groovy, Grails, Bash, LAMP/Laravel, OOP, FRP
- Testing: Jest, Spock, Cucumber, Cypress, Jasmine, Mocha, Protractor
- Data: SQL (Postgres, MySQL, MSSQL), NoSQL (DynamoDB, MongoDB, DocumentDB), Graph Databases (Neptune, Gremlin, Neo4j, Cypher), AWS Cloudnative Data Pipelines
- Architecture: Cloud-native Systems Design, Distributed Systems, Asynchronous Message-Driven Systems, Domain-Driven Design (DDD), Test-Driven Development (TDD), Service-Oriented Architecture (SOA), Systems Integrations, Microservices, RPC, Webhooks, REST, OWASP, Application Security

### Frontend Development

- Frameworks & Tools: React (Hooks), Redux, Angular (1, 2, 4, 8, 15, 17), MicroFrontends, RxJS, NgRx
- UI/UX: HTML, CSS/SCSS, SVG, Accessibility, Web Design

### APIs & Integration

- SaaS Multi-Tenancy, Authorization Patterns, OAuth & Identity Federation
- Documentation: Lucid, Miro, Figma, Data Flow Diagrams, Sequence Diagrams, Entity Relationship Models, Confluence, Jira

### Monitoring & Operations

- Splunk, OpsGenie
- AWS: CloudWatch Logs, Xray, S3, Athena, Quicksight, Config, Eventbridge

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## PROFESSIONAL EXPERIENCE

Take2 Consulting, McLean, VA - Remote

12/2025 – Present

### DevSecOps Engineer (Contract)

- **General**

- Build a centralized authorization and usage platform at Booz Allen Hamilton.
- Pilot program to establish AI-powered spec-driven-development tooling & practices, as a pattern to migrate all software development teams at Booz Allen Hamilton.

Moodys Analytics, New York - Remote

01/2022 – 07/2025

### Staff Software Engineer

- **General**

- Facilitate discussions and technical diagramming
- Discover and vet technology options with quick POCs
- Engage other tech leads in architectural review
- Collaborate with product design and senior technical leadership, to discuss technical trade-offs
- Document solution architecture, mapped to actionable epics and work tickets.
- Collaborate with QA to provide clarity, guidance and remove obstacles

- **ABAC Authorization System**

- Architect and build the new Attribute-Based-Access-Control (ABAC) system, to support evolving product definitions and billing models.

- **Moodys Copilot**

- Partner early with technical leadership to architect the infrastructure and messaging patterns for the Moodys Research Assistant/Copilot

- **Site Reliability**

- Architect and build the Transitional Content Store (TCS) middleware (solo)
  - eliminate chronic site outages - reduced incident escalation calls from 1-2 per week to just 1 escalation in six months.
  - provide 99.99% site stability while we strangle an end-of-life monolith into a series of cloud-native and ECS-hosted microservices
  - build a cached corpus of legacy content over time, so that legacy systems may be safely retired (we finally retired Sharepoint! ☺)

- **DevOps**

- Provision, configure and customized CI/CD pipelines, including tool chains to build and test projects, and manage configuration/secrets
- Create a self-service solution for application teams to rapidly define adhoc integrations/projections from DynamoDb to OpenSearch
- Test tooling and strategies for distributed systems with asynchronous integrations

- **Data Pipelines**

- Architect and build cloud-native data pipelines:
  - Designed and built: text-to-speech ingestion to improve accessibility of research documents (solo engineer)

- Designed and built: Legacy Access Control to New ABAC AuthZ system for User Management (team lead)
- Designed and built: extensible OpenSearch solution to Operations team need for search against DynamoDB tables (solo engineer)
- Designed: Salesforce to AuthN+AuthZ data pipelines
- Designed: Research Ingestion Pipeline for Research Views team (team effort)
- **Architecture**
  - Pair with team leads to iterate early and often on systems designs/docs for new projects
  - Quick POCs to validate ideas, inform technology selection and set technical direction
- **Accessibility**
  - Architect & build full-stack text-to-speech solution, to improve accessibility of editorial content

Liberty Mutual, Indianapolis, Indiana - Remote

08/2019 – 05/2021

### **Senior Software Engineer**

- Rebuild legacy mainframe solutions in the AWS cloud, to support the new reinsurance platform.
  - Full-stack development of new back-office to support reinsurance operations and reporting.
- Service integrations to adapt legacy systems for compatibility with new reinsurance platform.
  - Hexagonal architecture to adapt legacy systems for integration with modern cloud-hosted services
  - ETL and batch transaction processing pipelines

Allegion US, Carmel, Indiana

02/2019 – 04/2019

### **Contract Frontend Developer**

- Temporary help to get their online ordering application across the finish line

OneAmerica, Indianapolis, Indiana

06/2018 – 11/2018

### **Contract Frontend Developer**

- Frontend development of new Evidence of Insurability web application.
  - delivered ahead of schedule, with more functionality than originally expected.

Stratice Healthcare, Carmel, Indiana

10/2017 – 03/2018

### **Senior Solutions Developer**

- Full-stack development existing web application to automate the ordering and delivery of durable medical equipment (DMEs)

Gannett/Indystar, Indianapolis, Indiana

08/2013 – 09/2017

### **Principal Developer**

- **General**
  - Special projects and newsroom collaborations for key accounts
  - Consult with product design and senior leadership to discover and discuss technical trade-offs

- LAMP stack development, leveraging Laravel framework on the backend, and Angular on the frontend for majority of projects
- CI/CD pipelines and tooling for developer experience
- **Newsroom Interactives**
  - CraftBeerGuide – Interactive map of local wineries, breweries, distilleries
  - SummerCampsGuide – Interactive map of local summer camps for each year
  - IndianaSportsAwards – platform to nominate and vote for high school athletes
  - TheFinerYears.com – Interactive map of facilities and services available for the elderly.
  - CircleOfLights – online coloring contest for children
  - NeardNation – online game to place one of Andrew Luck’s neck-beards on your neck
  - KentuckyDerbyHorseNameGenerator – generate your horse name
  - AprilFoolsNewsSpoof – generate fake news article for users to share on facebook
- **Back Office**
  - CampaignPerformanceVisualizer – to compare advertising campaign performance
  - SteakAndShakeMediaOrdering – to facilitate and aggregate media buys across 100+ stores
  - Library of re-usable components for weekly grocery ads/brochures
  - Data migration utility for new “PlanetDiscover” headless CMS for local events

## EDUCATION

**Butler University**, Indianapolis, Indiana  
**MBA** – Marketing, Finance (2013)

**Indiana University**, Indianapolis, Indiana  
**BA** – Philosophy, Economics (2009)

## AWARDS

**Digital Insights Hackathon 2<sup>nd</sup> Place**, Moodys Analytics (2024)

**Liberty Shine Award**, Liberty Mutual Reinsurance (2020)

**IndyStar Customer Experience Award**, Gannett/StarMedia (2015)

**IndyStar MVP Performance Award**, Gannett/StarMedia (2015)

## PAST CERTIFICATIONS

**AWS Solutions Architect - Professional**, Amazon Web Services (2021-2024)

**AWS Security - Specialty**, Amazon Web Services (2021-2024)

**AWS SysOps Administrator - Associate**, Amazon Web Services (2021-2024)

**Developer - Associate**, Amazon Web Services (2021-2024)

**Solutions Architect - Associate**, Amazon Web Services (2021-2024)