



# James Earlywine

Solutions Architect, MBA

Fishers, Indiana  
james@earlywine.info

317.918.5861

<https://www.linkedin.com/in/james-earlywine/>

<https://jamesearlywine.com>

---

## SUMMARY

Solutions Architect with 17 years experience building and supporting SaaS web applications for local startups, national media, global insurance and global risk analytics.

Seeking a remote role on a well-connected team. I value a candid, positive culture, continuous learning and growth, and a healthy work/life balance.

I especially like to design and build event-driven solutions - whether it's client-side web UIs, or cloudnative distributed backend architectures in the AWS cloud.

## TECHNICAL SKILLS AND EXPERTISE

### Cloud & Infrastructure (AWS)

- API Gateway, Lambda, ECS-Fargate, ECR, S3, RDS, DynamoDB + Streams, DocumentDB, OpenSearch, Neptune (Gremlin/Cypher)
- Step Functions, EventBridge, SQS/SNS, SES, CloudFormation, CloudWatch + XRay, Config/Secrets Manager, IAM + SCP
- CodeBuild, CodePipeline, Cognito, Well-Architected Framework, Resiliency Hub

### Backend Development & Architecture

- Languages/Frameworks: TypeScript, Node.js, Express, Java 8, Spring Boot, Spring Batch, Groovy, Grails, PHP (LAMP), Laravel 5, Bash
- Testing: Jest, Spock, Cucumber, Cypress, Test-Driven Development (TDD)
- Architecture & Design: Cloud-native Systems Design, Distributed Systems, Microservices, Domain-Driven Design (DDD), Service-Oriented Architecture (SOA), Systems Integrations, Data Pipelines, UML (Miro)
- Databases: SQL (Postgres, MySQL, MSSQL), NoSQL (DynamoDB, MongoDB), Graph Databases (Neptune, Gremlin, Cypher)

### Frontend Development

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

### APIs & Integration

- REST, RPC, WebSockets
- SaaS Multi-Tenancy, Authorization Patterns, OAuth & Identity Federation

### Monitoring & Operations

- Splunk, OpsGenie, CloudWatch Logs & Alerts, XRay

## PROFESSIONAL EXPERIENCE

Moodys Analytics, New York - Remote

01/2022 – 07/2025

### Staff Software Engineer

- **New Authorization System**
  - One of three key architects to design and build the new Attribute-Based-Access-Control (ABAC) system, to support evolving product definitions and billing models
- **Data Pipelines**
  - Designed and built six 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)
    - Designed: Ingestion Failure Alerts Pipeline for Search team (team effort)
- **Moodys Copilot**
  - Partnered early with technical leadership to architect the infrastructure and messaging patterns for the Moodys Copilot
- **Site Reliability**
  - Designed and built Transitional Content Store (TCS) middleware to
    - 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 cloudnative and ECS-hosted microservices
    - build a cached corpus of legacy content over time, so that legacy systems may be safely retired
      - expose operational controls for updating that legacy content

Liberty Mutual, Indianapolis, Indiana - Remote

08/2019 – 05/2021

### Senior Software Engineer

- Service integrations and rebuilding legacy mainframe solutions in the AWS cloud. (ETL, Batch Transaction Processing, UI) to build and support the new reinsurance platform.

Allegion US, Carmel, Indiana

02/2019 – 04/2019

### Contract UI Developer

- Temporary help to get their online ordering application across the finish line
  - I re-architected their UI state-management and component messaging, to accommodate an increasingly complex domain model

OneAmerica, Indianapolis, Indiana

06/2018 – 11/2018

**Contract Developer**

- Responsible for greenfield development of 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 to build and operationalize a rapidly-prototyped POC to automate the delivery of durable medical equipment (DMEs).
  - Made considerable progress before this startup ran out of money.

Gannett/Indystar, Indianapolis, Indiana

08/2013 – 09/2017

**Principal Developer**

- Special projects and newsroom collaborations for key accounts
- **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
- **Campaign Interactives**
  - KentuckyKingdom – online exposé of rides and games
  - AngiesListGrandPrix – interactive map annotated by popup video content
  - PublicationsBookshelf – online publication for previously print-only customers
  - Library of re-usable components for general contests and give-away landing sites
- **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
  - Custom data migration utility to migrate a very dirty data-set from legacy "EventTracker" platform to new "PlanetDiscover" platform, to server as a headless CMS for local events.
    - Ensure migration tool could be used to migrate other newspapers in the Gannett portfolio of 96 newspapers
    - POC work on an Angular client and components for all Gannett web properties to display local events stored in the PlanetDiscover platform

## EDUCATION

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

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

## PROFESSIONAL DEVELOPMENT

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

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

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

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

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

**Cloud Practitioner**, Amazon Web Services (2021-2024)

## 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)