

AARON W. WEST

AUSTIN TX

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Core Skills

- **AWS:** Amplify, CodePipeline, CodeBuild, CodeArtifact, CodeStar, RDS, Route 53, ACM, Organizations, SSO, S3, IAM, Lambda, Step Functions, EventBridge, CloudWatch, CloudFormation, EC2, ImageBuilder, ECS, Fargate, Systems Manager, Chatbot, Service Catalog, Control Tower, Secrets Manager, VPC, SNS, SQS, API Gateway, Bedrock, SageMaker, Rekognition, Polly, Textract, Comprehend.
- **IaC:** Terraform, CloudFormation, CDK, Chef, Ansible, Jenkins, Docker, Vagrant.
- **Languages:** JavaScript/TypeScript, Python.
- **Web Frameworks:** React, Next.js, Flask.
- **Databases:** PostgreSQL, MySQL, SQLite, Cassandra, MongoDB, DynamoDB.

Experience

Lead Data Engineer ▪ Mar-2023 – current

Protagona ▪ Remote

- Led development of intricate cloud architectures in AWS for various projects.
- Authored CloudFormation templates using serverless framework, CDK, and boto3 AWS SDK, primarily in Python.
- Devised event-driven pipelines and managed IoT data life cycles using AWS IoT Core.
- Created serverless 'schemas' and API data contracts via API Gateway.
- Engineered Slack chatbots powered by API Gateway and Lambda functions.
- Implemented logging TTLs, lifecycles, and pipelines with AWS Athena & S3.

Site Reliability Engineer ▪ Jun-2022 – Feb-2023

FluentStream ▪ Remote

- Led AWS infrastructure optimization efforts, ensuring high durability, performance, and availability.
- Spearheaded a fully automated CI/CD pipeline using AWS CDK and Typescript, achieving a 50% reduction in deployment times.
- Championed IaC principles for streamlined cloud resource management.
- Drove the migration of legacy deployments, ensuring business continuity and minimal service disruption.

Senior II DevOps Engineer ▪ Sep-2020 – Jun-2022

Rural Sourcing Incorporated ▪ Remote

- Fully implemented the Open Source Data Universe (OSDU) PoC for several clients on behalf of AWS, aiding in customer acquisition for the AWS platform.
- Served as an AWS specialist, providing expert guidance and solutions to streamline the deployment and integration of OSDU.
- Automated documentation processes for blue/green deployments and application build tracking.
- Optimized blue/green deployment procedures to enhance release efficiency and reliability.

Individual Contributor ▪ Oct-2020 – Sep-2021

FluentStream ▪ Remote

- Wrote infrastructure as code with the CDK typescript library to automate the deployment of web application micro-service to AWS.

- Implement and maintain DevOps CI/CD pipelines to automate infrastructure provisioning and software delivery to AWS
- Worked with developers to deploy applications ready for production with runbooks, instructions and processes
- Lead design, implementation, and maintenance of the development, staging, and production infrastructure with proof of concept presentation
- Assist with testing and validating production applications
- Engineering solutions in the long term to make everyone's life easier

SaaS Prod & Platform Ops Team Lead ▪ Oct-2017 – Oct-2020

Accenture ▪ Austin, TX

- Expanded a team from two to seven, building a large-scale, multi-purpose product deployment automation platform.
- Implemented agile development processes, educating business members and stakeholders on its benefits.
- Developed automation and deployment utilities using Ruby, Python, and JavaScript.
- Automated the deployment of containerized micro-service infrastructure using Docker and Kubernetes.
- Designed and developed automated deployment processes with Vagrant, Terraform, and Ansible for diverse server types and application tiers.
- Implemented automated unit testing strategies to ensure code quality and deployment stability.
- Advocated for extensive automation throughout the deployment lifecycle.

Other Experience

DevOps Engineer ▪ Jul-2016 - Oct-2017

Infor ▪ Austin, TX

Network Analyst ▪ Jul-2015 – Jul 2016

Valero Energy Corporation (Contract) ▪ San Antonio, TX

Senior Systems Analyst ▪ Feb-2013 – Jul-2015

USAA (Contract) ▪ San Antonio, TX

Linux Systems Administrator ▪ Feb-2013 – Apr-2013

HostGator ▪ Austin, TX

Projects

- API Data Contract Development for Major Airline Operations:
 - Led a team to build the backend for a comprehensive messaging app enabling flight crew (pilots and flight attendants) to communicate securely.
 - Engineered secure code generation systems for cockpit access, ensuring high-level security protocols.
 - Developed a notification system for flight crew rotation, improving operational efficiency and crew management.
 - Defined functional interdependencies, data flow, and service agreements, ensuring robust communication protocols and seamless platform integration.
 - Utilized API Gateway, Lambda functions, and event-driven architecture to create scalable HTTP REST APIs.
- AWS IoT Data Aggregation and Efficiency Analysis System:
 - Developed a data aggregation system for monitoring water pressure valves, automating the collection and transformation of IoT sensor data.

- Implemented advanced data enrichment processes, enhancing analytic capabilities for water usage and conservation measures.
- Created a refined data repository supporting complex queries, facilitating improved decision-making regarding water efficiency.
- Leveraged AWS IoT Core, DynamoDB, and S3 for efficient data management.
- Asynchronous Event-Driven Data Pipeline Architecture:
 - Designed and deployed a sophisticated event-driven data processing architecture to handle asynchronous tasks.
 - Enhanced data throughput, reduced latency, and improved scalability of data management processes.
 - Implemented a highly efficient data funnel into Amazon DynamoDB, optimizing the overall data pipeline performance.
- Slack Chatbots for Workflow Automation:
 - Engineered Slack chatbots powered by API Gateway and Lambda functions to enhance internal communication and workflow automation.
 - Automated routine tasks and improved team productivity through seamless integration with existing systems.
- Comprehensive Logging and Data Management Solutions:
 - Implemented logging TTLs, lifecycles, and pipelines with AWS Athena & S3, ensuring efficient data management.
 - Developed solutions for automated data lifecycle management, improving data retention and retrieval processes.

Education

Colorado Technical University

Master of Science in Information Technology ▪ Mar-2015 - Sep-2016

ITT-Technical Institute

Bachelor of Science in Information Technology ▪ Jul-2013 - March-2015

Associate of Applied Science in Information Technology ▪ Jul-2011 - Jul-2013