

MOHAMED BEN ACHOUR

Cloud DevOps Architect

Seattle, Washington

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mohamedbenachour.net

SUMMARY

I'm a motivated, dedicated, and resourceful DevOps Architect, currently working on helping to deliver software in the healthcare industry, and previously in the energy market, I bring to the table a decade of experience in public cloud, devops, and software architecture.

EMPLOYMENT HISTORY

❖ **Managing Devops Architect, PremierInc** Jan 2021 — Present
Seattle, Washington

With a team of four DevOps engineers, we make sure that our portfolio products are getting built and deployed securely, efficiently, and

- **Azure Cloud:** Designed, automated, and migrated suite clinical and pharmacy applications formerly hosted on MKE (Mirantis Kubernetes Environment) to be deployed on Azure Web Apps, Azure Container Instances, Azure Application Apps.
- **CI/CD:** Migrated Pipelines, Test Cases, Automated Tests, User Stories from Atlassian Stack, to Azure DevOps, Migrated entire org code base to Github Enterprise
- **PHI (Patient Health Information):** Implemented custom solutions and commercial off-the-shelf software data masking solutions, to create HIPAA-compliant databases for on-shore and off-shore use.
- **Fin-ops:** Started FinOps team inside the organization to optimize cloud costs and shift left cost management.
- **Salesforce:** Integrated case creation in salesforce with developer backlog creation to map cases to work items and issues.
- **Secret Management:** Adopt Hashicorp Vault as the organization's secret management platform, for key/value secrets, rotations, PKI management, etc
- **DevOps :** Helped standardize devops/devsecops practices across all PremierInc portfolio of applications, including: Azure Devops as org build/release platform, adopt SAST scans using CheckMarx, OSS scans using Sonatype Lifecycle.

❖ **Lead Systems Engineer , Vistra Energy** Jun 2018 — Dec 2020
Remote / Irving, Texas

- **AWS Cloud :** designed, implemented, and maintained the organization infrastructure as code initiative using cloud formation, to build networking and storage solutions in AWS
- **Configuration Management:** wrote chef cookbooks to provision basic application components like IIS servers, SQL servers, manage compliance with inspect,
- **Clean Energy:** Designed, implemented, and maintained bidding systems for energy storage in California ISO
- **MLOps :** designed training and inference platforms for energy models in AWS cloud.
- **Power Plant Optimization:** managed the build and release process of in-house applications to monitor/Optimize Power Plants heat rate,

❖ **Senior Systems Engineer, Vistra Energy** Jun 2016 — Jun 2018
Irving, Texas

- Automated deployment IIS, SQL Server, MongoDB, Active Directory, firewall rules, to on-premises and cloud servers.
- Transferred 90% of workload to a public cloud, through the implementation of broader strategy and virtual-to-virtual or automation techniques (configuration management scripts Chef and Ansible)
- Compiled and presented training demos for more than 100 employees, covering configuration drift, compliance, cloud provisioning, and Chef training.
- Oversaw Scalr cloud platform integration and provision on-prem servers and public cloud environments.

- Implemented data streaming pipeline using AWS Kinesis Data Streams, and Kinesis Data Analytics to collect Power Plants sensors data coming from OSIsoft PI servers.
- Implemented Lambda functions to automate start/stop of cloud servers to lower compute costs
- Implemented Direct Connect service to manage traffic from the corporate network to AWS Virginia Region provisioning 10Gig bandwidth
- Migrate from a VPC mesh architecture to use Transit gateway architecture
- Established first CI/CD practice using GitLab for version control, Jenkins for continuous integration and delivery
- Implemented Container Security across all applications and teams by deploying Aquasec and Twistlock for image scanning.

❖ **DevOps Engineer, Southwest Airlines** Nov 2014 — May 2016
Dallas, Texas

- Conceptualized, developed and implemented net-new continuous integration stack for Southwest.com, enabling seamless server testing and transition from development stations
- Spearheaded continuous integration and automation for deployments.
- Automated workstations using chef-server by writing Chef recipes.
- Built test automation for single-page applications.
- Ran Jbehave stories with Selenium grid against web app components.
- Setup password vault for southwest web application using CyberArk.
- Create AMIs using Packer to migrate CI stack to EC2.
- Deploy F5 BIP-IP virtual edition products in AWS.
- Configured hosted zones in AWS, domain creations, and NS records.
- Monitored EC2 instances, EBS volumes performance via CloudWatch.

CERTIFICATIONS

❖ **AI-900 Microsoft AI Engineer** Feb 2022

❖ **DP-100 Microsoft Data Scientist Associate** Feb 2022

❖ **Az-305 Designing Microsoft Azure Infrastructure Solutions** Apr 2022

❖ **AWS Solution Architect Associate** Feb 2018

EDUCATION

❖ **Arkansas Tech University** Jun 2012 — Dec 2013
Master of Science : Information Technology Russellville - Arkansas

❖ **Universite Paris 8** Sep 2009 — Dec 2011
Bachelor in computer science Paris - France

❖ **Universite de Versailles** Sep 2007 — Jun 2009
Associate Degree in Industrial Engineering Mantes-la-Jolie - France

VOLUNTEERING

❖ **Big brother and Mentor at Big Brother Big Sister** Feb 2018 — Present