

Aiman Najjar

DevOps Architect



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<https://github.com/aimannajjar>

- ✓ DevOps Architect with over 17 years professional experience.
- ✓ Hands-on experience in AWS, Azure, GCP, On-Prem & OpenStack.
- ✓ Skilled in general-purpose automation, CI/CD, cloud migrations (lift & shift and replatforming).
- ✓ Previous roles include: VMware, Couchbase, Electronic Arts and Cray.



Infrastructure Automation



CI/CD



Cloud Migrations; Lift & Shift, Replatforming



Configuration Management



Containerization & Kubernetes



Scripting; Python, Bash, ...etc



HIGHLIGHTED ACHIEVEMENTS

- Led [Optiva Telecom's lift & shift migration to GCP](#), orchestrating via Ansible, GCP SDK, and Python scripts legacy VM transfers, automated image reconstruction, boot repairs process, block disk transfers and status updates.
- Created unique CI pipelines for [Couchbase DBaaS](#) in which I implemented containerized mock AWS and Kubernetes environment (custom-built K8S controllers) utilizing [k3s](#), [Metacontroller](#) and [Localstack](#) frameworks.
- Exposure to advanced CI/CD problems such as Docker-in-Docker, multi-tenant Jenkins setups, Pipeline-as-Code, Kubernetes integrations, running builds with containers as first-class citizens.
- Low-level experience with bare-metal Kubernetes: Worked on air-gapped Kubernetes Supercomputer systems (at Cray Inc.) solving unique operational challenges.
- Engineered and implemented many on-prem to cloud re-platform migrations, such as for Couchsurfing.com where I migrated their user-facing search product from Solr to AWS Elasticsearch, including 16MM documents, with zero downtime in both reads and writes.



EDUCATION

- Master's, Computer Science, Columbia University, New York, NY, 2014
- B.S, Computer Science, University Of Jordan, Jordan, 2008



CERTIFICATIONS

- [Microsoft Certified: Azure Fundamentals](#) - 2024
- Certified Kubernetes Administrator - 2018
- Gogole Cloud Certified - Cloud Architect - 2017
- Cisco Certified Network Associate - 2008



TECHNICAL SKILLS

- **Infrastructure as Code:** Terraform, Terragrunt
- **Configuration Management/Automation Tools:** Ansible, Chef, Puppet
- **Containerization:** Docker, Kubernetes, Istio, Helm
- **Continuous Integratipn / Continuous Delivery (CI/CD):** Jenkins, ArgoCD, Spinnaker, Github Actions, CircleCI
- **Cloud Platforms:** AWS (Advanced), GCP (Certified Architect)
- **Programming/Scripting Languages:** Bash, Python, Golang, Ruby
- **Container Orchestration:** Kubernetes (Bare-metal, AWS EKS; GCP GKE,..etc), AWS ECS, Fargate
- **Networking:** VPC (Virtual Private Cloud), Route53,
- **Monitoring and Observability:** Prometheus, Grafana, Elasticsearch / OpenSearch, ELK
- **Web Servers/Load-Balancers:** Nginx, Traefik, HAProxy, ALB, ELB, Tomcat, Apache

WORK EXPERIENCE (HIGHLIGHTS)

Propel Inc - New York, NY - Senior DevOps Engineer

Aug, 2019 - Apr, 2024

- Reduced downtime incidents by 90% and increased system reliability by orchestrating a seamless zero-downtime migration project from legacy ECS infrastructure to AWS EKS Kubernetes infrastructure.
- Supported over 7000 operations per second (OPS) with enhanced performance by architecting, maintaining, and continuously improving infrastructure for user-facing production systems.
- Decreased plaintext intra-service communication by 90% and bolstered data protection by deploying Istio Service Mesh technology with mTLS authentication.
- Reduced deployment errors by 40% and increased deployment speed by 25% through implementing Terraform/Terragrunt's 'infrastructure-live' design pattern for Infrastructure as Code practices.
- Decreased DevOps support requests overhead by 70% by developing and implementing a Jenkins Shared Library solution, enabling customizable Jenkinsfiles while enforcing organizational conventions.

VMware - Atlanta, GA - Senior DevOps Engineer

Sep, 2021 - Aug, 2023

- Increased deployment efficiency and reduced error rates by optimizing Ansible playbooks and crafting custom modules.
- Enhanced incident response times and improved overall system stability by leading on-call rotations for internal stakeholders.
- Improved system uptime by resolving VMware Workspace ONE automation failures within SLAs while supporting critical production infrastructure.

Pythian - Ottawa, ON - DevOps Principal Architect

Jul, 2017 - Mar, 2019

- Reduced infrastructure costs while enhancing scalability and reliability by engineering and executing migration of Optivia to GCP.
- Optimized resource utilization and improved system agility by directing the migration of legacy virtual machines to GCP.
- Enhanced visibility and control and improved overall system stability by establishing dynamic inventory management systems for customer monitoring during the Optivia migration.

HurraNet LLC - Orlando, FL - DevOps Consultant

Jan, 2015 - Jan, 2017

- Worked on various 1099 contracts through my own LLC-incorporated consultancy
- Implemented DevOps solutions for the analytics team, provisioning Big Data infrastructure (Hortonworks Hadoop) using Puppet. Assisted in refactoring Spark jobs into unit-testable ones and constructed CI pipelines.
- Consulted on DevOps initiatives, integrating backend microservices with HashiCorp Vault for secure storage of encrypted PII data in an Oracle database.
- Introduced DevOps practices to a technology team, planned and executed AWS Cloud migration, and established CI/CD pipelines for Java Spring-based applications.
- Automated configuration management of new infrastructure using Ansible and Chef. Conducted advanced testing of Chef cookbooks utilizing Test Kitchen.
- Implemented bug fixes for the company's digital platform developed in PHP and Laravel framework.

Rakuten Marketing LLC - New York, NY - Senior Software Engineer

Sep, 2013 - Nov, 2015

- Designed and implemented several high-scale on PHP, Symfony-based microservices leveraging Doctrine ODM and MongoDB for data backend.
- Streamlined data processing and analysis workflows by engineering and implementing various Big Data automation solutions.

MORE PROFESSIONAL EXPERIENCE

- **Cloud Engineer**, Cray Inc - Minneapolis, MN: Apr, 2019 - Aug, 2019
- **Principal Site Reliability Engineer**, Couchbase, Inc - San Diego, CA: Dec, 2019 - Jun, 2020
- **Software Engineer Intern**, Electronic Arts - Redwood City, CA: Jun, 2013 - Aug, 2013
- **Software Development Manager**, NBCUniversal LLC - New York, NY: Apr, 2010 - Dec, 2011
- **Web Developer**, John Wiley and Sons - Hoboken, NJ: Nov, 2008 - Apr, 2010