

Cevher Dogan
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BUSINESS PROFILE

Experienced information technology professional with expert level knowledge and experience in cloud solution architecture, platform engineering, cloud infrastructure automation, systems integration, CI/CD, Performance Engineering and Capacity Planning, DevSecOps, business product development in telecommunications, CableTV, finance, market intelligence for options and future contracts, public utilities domains

AREAS OF SPECIALIZATION

- Highly academic with industry experience from matlab, caci systems, genetic algorithms, game theory to blockchain
- Traditional and cloud-based systems integration and workflow automation paradigms, on-prem, hybrid or multi-cloud
- Containerization and virtualization spanning across docker, kubernetes, CaaS, EKS/ECS, vagrant, virtual box, vmware
- Highly experienced with Linux, OpenStack, CloudStack, Pivotal, AWS, GCP, Salesforce
- SaaS, PaaS buildout; architecture, design and implementation, mainly AWS, CF, Openstack, Heroku
- State of the art execution of SDLC, MDA, SOA, debugging, performance, capacity and cost centric decision making

PROFESSIONAL EXPERIENCE

CME Group, Berkshire Grey, American Water, Comcast, Nuance, Pinnacle 21, Moven, Modsolar, Arris, Motorola, BlueCoat (Packeteer/Tacit Networks), IPC, Boeing, Corning, AT&T Wireless, True Position, TIBCO (Kabira), HP (DEC/Compaq), AT&T Bell Labs / Lucent Technologies, Verizon (NYNEX), CCNY

CME Group, Contract, 10/22 – 12/23

Sr. Platform Engineer, Platform Engineering Team

- Supported platform and app teams in hybrid to multi cloud digital transformations from On-Prem to AWS to GCP
- Provided advanced multi disciplinary technical liasoning between executive management and product engineering teams
- Carried out Jenkins infrastructure support issues, change requests for multiple rolling architectures spanning across on-prem, swarm, k8s and AWS, GCP, technical scope: docker, kubernetes, jenkins, terraform, JPL, ansible, cloudbolt
- Collaborated with fast paced engineering teams in a strongly regulated processes for production deployment workflows, with strict governance and world standard quality controls from dev, UAT to PROD multi-hybrid-cloud
- Managed and maintained Jenkins infrastructure in diverse environments, including on-premises, Docker, Swarm, Cloud (AWS, GCP), and Kubernetes, facilitating effective CI/CD processes.
- Orchestrated build, test, and deployment phases across varied environments, utilizing an array of images, labels, and target settings.
- Conducted upgrades and maintenance for a suite of development tools and frameworks such as Terraform, Terragrunt, Python, Maven, JDK, Ansible, Selenium, and Apache Flink, ensuring compatibility and performance in multi-platform environments.
- Regularly updated, upgraded, and maintained Jenkins Docker agent images, ensuring stability and efficiency in containerized environments.
- Proactively addressed and remediated vulnerabilities in Docker and Packer images, as well as AMIs; managed and secured third-party libraries within Infrastructure as Code (IaC) in diverse CI/CD pipelines.
- Consistently updated and refined the Jenkins-pipeline-library using Groovy, adapting to evolving project requirements and environments.
- Implemented and optimized Lambda functions in Python, tailored for serverless computing environments.
- Developed and managed Splunk reports for advanced debugging, tracing, and security monitoring, with a focus on eliminating plaintext password vulnerabilities.
- Oversaw the upgrade and maintenance of Splunk forwarders, ensuring seamless data collection and reporting across various AMIs in multi-cloud environments (AWS, GCP) using Ansible and Chef.
- Engineered and maintained AMIs, focusing on cross-platform compatibility and rigorous testing in multiple simulated environments

Environments tools and technology stack: AWS, Docker, Kubernetes, Splunk, terraform, terragrunt, ansible, OPA, OWASP, Jenkins Infra, Vulnerability, EMR, SGW, Lambda, MKS, AMI, Python, Java, Maven, groovy, bitbucket, GCP, GCE, ArgoFlow

Berkshire Grey, RaaS Integrated AI and Robotics, Platform Engineering, 06/22 – 08/22

Principal Platform Engineer, Automated Pick Operations

- Designed, implemented, and maintained features related in core infrastructure and tools
- Worked on architecture and delivery of scalable dependency management solutions
- Contributed to continuous integration and release artifact generation software

- Helped architecting and delivering of lean image builds for software releases and manage builds and deployments
- Helped in architecture and delivery of runtime tools for SW teams to improve efficiency of software testing cycles
- Coordinated with teams of developers to deliver core infrastructure changes
- Worked with engineering team surveys', ie. input from developers and business leaders and integrate that into solutions

Environments tools and technology stack: AWS EKS, Jenkins, Artifactory, ArgoCD, ROS, Docker, Kubernetes, lxd/lxc, Tilt, ElasticSearch Service, Vault, Ubuntu 18.04, RWIZ, Prometheus, Grafana, Alert Manager, MongoDB

American Water Works, T&I Platform, Cloud Enablement, 12/20 – 03/22

Sr. Infrastructure Engineer II, Cloud Enablement, Cloud Center of Excellence (CoE)

- Collaborated with high level executives and external solution provider vendors, platform and application teams to onboard to AWS, provide best practices in conceptualizing prototypes and building solutions in data engineering, data governance, access management and self-service platform automation
- First line of PROD support for application, OSS for compute, storage, networking, data, access, optimization, debugging
- Hands-on expertise in user, group, role access scoping, control tower, account factory, landing zone, SSO, KMS/CMK encryption, data pipeline, code pipeline, CICD, EKS, Docker, Fargate, Kubernetes, eventbridge, cloud formation template, customizations, cost explorer, service limits, marketplace, Macie, Palo Alto's Prisma Cloud, Transit Gateway, AWS client, VPN, VPC, Subnets, Security Groups, ACLs, DNS, ACM, S3, Redshift, RDS, DynamoDB, Glacier, SAP Hana, Remedy Helix, JIRA, Open Search, Athena, Service catalog, SCPs, Guardrails, cloud front, certificates, stackset, organization, account migration, hybrid cloud, cloud trail, cloud watch, dashboards, cloud9, EMR, Kinesis, MKS, RAM, Systems Manager, Config, drawio, F5 VPN, Bastion, SSM, secrets manager, Connect, SES, EFS, VPCE, VPC Gateway, API Gateway, Lambda, cross-account roles

Comcast, T&P CTX Atlantic, Headwaters and Open Egress (Presto/Datacast) Platforms, 12/09 – 12/2020

Sr. Platform Engineer, Product Engineering

- Developed Presto and Datacast platform automation in Cloud Foundry, OpenStack and AWS using ansible
- Developed Headwaters self-service REST web service using Python, AWS Lambda, API Gateway, Service Catalog, DynamoDB, Kinesis, IAM, S3, security policies, code pipeline, build, deploy
- Completed Headwaters 2 development and maintenance activities for OPS including SMOP and deployments
- Completed self-service implementation of Atlantic Platform with Play, jenkins, MariaDB, EMR, Tableau
- Completed projects for performance engineering, capacity planning, business intelligence and platform automation using splunk, ansible, jenkins, ci/cd, anomaly detection.
- Completed Java and BI reporting with Splunk, code coverage reports using cobertura, emma, jacoco, sonar. Spring/J2EE code as service gateway to enable message routing as part of hot-swappable migration and release conformance requirements, device image upgrades, service order automation with service assignment and technician scheduling, release conformance, mobile UI support for myAccount. Splunk dashboards including configurable and automated report generation, alert notification. CI/CD with jenkins, anthillpro, junit, rest-assured on Openstack.
- Completed major architecture, design, development and implementation, test and deployment of a new middleware as custom ETL including data collection, transformation and presentation as Full Stack Engineer SME with Performance Engineering and Capacity Planning in scope for custom KPI/KQI middleware with dashboard reporting including evaluations, proof of concept design and prototyping with full SDLC for n-tiered solutions
- Developed documentation, scripting, execution and reporting, followed by requirement analysis, scope definition for REST based X1 and XRE data services back end for IPTV subsystems
- Led tru2way IPTV cross functional project engineers and teams for rDVR, mDVR, UCID, rTune, watchlist

Environment: Python, Terraform, Ansible, Java/J2EE, DevOps, DevSecOps, elasticsearch, kibana, logstash, filebeat, collectd, influxdb, mongodb, Grafana, Prometheus, AppDynamics, SPLUNK, jenkins, Code and Test Coverage, SonarQube

PUBLICATIONS

- Testbed for node communication in MANETs to uniformly cover unknown geographical terrain using genetic algorithms
C Dogan, CS Sahin, MU Uyar, E Urrea **2009** NASA/ESA Conference on Adaptive Hardware and Systems
- Testbed Implementation of Genetic Algorithms for Self Spreading Nodes in MANETs.
C Dogan, MÜ Uyar, E Urrea, CS Sahin, I Hökelek **2008** GEM

EDUCATION

- PhD Coursework in Electrical Engineering, The Groove School of Engineering, 2003-09
- Master of Engineering, Electrical Engineering, The City College of New York - CUNY, 1/1992 –06/94

PERSONAL

United States Citizen