Avi Z.
Senior Platform Architect

SUMMARY

- 18+ years of experience in IT - Upper-Intermediate English

TECHNICAL SKILLS

Main Technical Skills	Kubernetes, RedHat
Programming Languages	C, C++, Go, Groovy, Java, JavaScript, Python, Rust, TypeScript
JavaScript Frameworks	Angular, Node.js, React, Vue.js
Java Libraries and Tools	JSON
Data Analysis and Visualization Technologies	Kibana
Databases & Management Systems / ORM	AVRO, AWS DynamoDB, AWS ElasticSearch, Cassandra, InfluxDB, MongoDB, MySQL, PostgreSQL, Redis
Cloud Platforms, Services & Computing	AWS, Heroku
Amazon Web Services	AWS DynamoDB, AWS ECS (Amazon Elastic Container Service), AWS ElasticSearch
Deployment, CI/CD & Administration	Active Directory, Ansible, CI-CD Pipeline, CircleCI, DevOps, Jenkins, Travis CI
Methodologies, Paradigms and Patterns	Agile
SDK / API and Integrations	API, GraphQL
Scripting and Command Line Interfaces	Bash, CLI, Perl, PowerShell
Version Control	BitBucket, GitHub, Github Actions, GitLab
Virtualization, Containers and Orchestration	Docker, Docker Swarm, Kubernetes, Nomad, Podman, Terraform
Logging and Monitoring	Grafana, Logstash, Prometheus
Mail / Network Protocols / Data transfer	GRPC

Message/Queue/Task Brokers	Kafka, NATS
Operating Systems	Linux, RedHat, Windows
Other Technical Skills	Protobuf

EXPERIENCE

Platform Architect, Edgeworx Global

January 2023 - Present
Responsibilities:

- Short term contract to migrate old failing Kubernetes infrastructure onto new GKE based projects.
- Designed and documented a new cloud architecture and built self-service platforms for developers to use.
- Implemented Web firewalls, log/metric aggregation, and OpenTelemetry for all applications.
- Facilitated the migration off their old infrastructure to the new infrastructure.
- Designed and developed a proof-of-concept reimplementation of their edge network using:
  - Wireguard for mesh peering
  - NAT64 for IPv6 translation from the internet to IPv4 addresses in the mesh
  - WebRTC for inbound peering to the network.

Lead Architect and Full-Stack Developer, Opolis Global

September 2021 - September 2022
Responsibilities:

- Migrated legacy Python Django applications running on Heroku to Amazon EKS.
- Developed and supported CI/CD systems running on Github Actions and ArgoCD.
- Architected and developed services during the transition from a monolithic Django application with server-side rendering to backend GraphQL APIs in Go and Python with frontends developed in React and occasionally Next.JS. Web3 applications were built entirely in React.
- Developed new calculators using protocol buffers and gRPC to handle payroll calculations.
- Developed an internal Kubernetes Operator to provide additional functionality on top of self-service databases (Stackgres) and secrets (Hashicorp Vault) for developers.

DevOps Enginner and Full-Stack Developer, Pelotech Global

May 2021 - September 2021
Responsibilities:

- Consulting with and assisting organizations on their Kubernetes deliver pipelines.
- Software development such as the jsonnet-controller referred to above.
- Prototyping of software and new technologies to enhance development experiences.

DevSecOps Engineer, Tufin Tel Aviv, Israel

September 2020 - February 2021
Responsibilities:

- Worked on Tufin's self-hosted Security Management Solution built on top of Kubernetes.
- Worked on Tufin application architecture as well as CLI development for end-users and develop- ment teams.
- Provided guidance on adopting new features in Kubernetes and improving the use of existing ones.

Senior DevOps Engineer, Globaldots Tel Aviv, Israel

January 2020 - September 2020
Responsibilities:

- Providing DevOps as a Service to several companies around central Israel.
- Working primarily with Kubernetes/ECS stacks hosted in AWS - terraform for infrastructure, and ELK and Prometheus/Grafana for logging, metrics, and observability.
- Providing custom-tailored solutions, typically developed in python, for clients who prefer.
- Helping a few clients with on-premises architectures. Moved to Israel

Senior DevOps Enginner, Centrica Business Solutions Seattle, WA

July 2018 – December 2019
Responsibilities:

- Designed and maintained CI/CD Pipeline for multiple application stacks in AWS, mainly using Jenkins, Docker, Terraform, ECS, and Kubernetes. Also, developed custom internal monitoring tools to meet application-specific needs.
- Worked as the North American DevOps team for the organization, collaborating on shared solu- tions with DevOps teams in Belgium, England, and Israel, using a wide range of technologies and methodologies. Heavy usage of Kafka for message brokering, and Grafana for observability.

DevOps Enginner III, Cambia Health Solutions Portland, OR

October 2016 - June 2018
Responsibilities:

- Maintained CI/CD Pipelines for over 30 development teams covering a large variety of technolo- gies and skill-sets
- Developed internal automated solutions and shared services to enable teams to exercise Agile development practices.
- Stayed on top of an ever-changing AWS environment that spanned 13 separate accounts by Organizational and/or Environmental units.

Senior Systems Enginner, Zoomcare Portland, OR

2015-2016
Responsibilities:

- Maintained an internal VMWare environment of over 300 instances across two VMWare clusters
- Oversaw beginnings of an AWS migration

• Supported developers in the creation of software driven health-care solutions

Systems Administrator, Parthenon Software Group – Portland, OR

2014-2015
Responsibilities:

- Maintained all internal technological solutions for a development team of roughly 60 people.
- Ran customer applications in Linode as well as maintained an in-house KVM cluster for development purposes.

EDUCATION

Indiana University of Bloomington
B.A. Psychology;
B.A. Religious Studies
Minors: Hebrew, Near Eastern Languages and Cultures, Jewish Studies
2006-2011

CERTIFICATES

Red Hat Certified Systems Administrator (RHEL 7)