HANNA BARYSAVA

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SUMMARY

Senior DevOps/Site Reliability Engineer with 7+ years of experience designing, implementing, optimizing, managing and supporting resilient, large scale, distributed infrastructure for enterprises. My major area of expertise is cloud technologies (Azure, AWS), CI/CD (Azure DevOps, Jenkins), configuration management and IaC (Terraform, Azure Bicep, Ansible, Chef), containerization and orchestration (Kubernetes, Docker), various databases (MSSQL, MySQL, MongoDB, Redis, Cloud databases), scripting (Python, Bash, Powershell), Windows and Linux administration.

Proficient in diagnosing and resolving complex technical issues across diverse DevOps tools and environments. Recognized for consistently delivering rapid and effective solutions, minimizing downtime, and ensuring smooth system operations.

EDUCATION

B. Sc. in Telecommunications Engineering, Belarusian State Academy of Communications

CERTIFICATIONS

AZ-104 - Microsoft Certified: Azure Administrator Associate

AZ-400 - Microsoft Certified: DevOps Engineer Expert

Hashicorp Certified: Terraform Associate

CKA: Certified Kubernetes Administrator

AZ-305 - Microsoft Certified: Designing Microsoft Azure Infrastructure Solutions

PROFESSIONAL EXPERIENCE

Palo Alto Networks

Senior Staff Site Reliability Engineer   **Jan, 2024 – Till Now**

- Design, build and operate reliable, secure Cloud infrastructure (GCP, AWS, Azure)
- Orchestrate end-to-end monitoring and alerting
- Participate with SRE and Dev teams in the on-call rotation

EPAM Systems Inc

DevOps Technical Lead / Senior Site Reliability Engineer   **March, 2022 – Jan, 2024**

- Technical lead for a team responsible for building and overseeing the enterprise-level API Management Platform based in Azure Cloud and the maintenance of a suite of enterprise services, encompassing over 100 microservices built on Azure Kubernetes and Azure Functions using Java.
- Led the technical aspects of the APIM Platform migration from Gen1 (Jenkins, Bitbucket, Azure Cloud) to Gen2 (Azure Devops, Azure Cloud), including project roadmap planning, proactively identifying and addressing potential challenges, and maintaining open communication with development teams and stakeholders.
- Practicing and advocating for infrastructure engineering best practices like GitOps and overall infrastructure-as-code driving code quality and overall reliability.
- Developed widely reusable components, such as CI/CD pipelines, Python and Bash scripts, Helm charts, Terraform modules, Docker images or platforms that automate repetitive operations processes (e.g., monitoring, alerting, deploying products and updates,

debugging) at scale; reviewed existing automation code and scripts to evaluate reusability, extendibility, and scalability within an organization
- Designed and implemented a data synchronization solution bridging Azure CosmosDB (SQL API and Mongo API) with Mongo Atlas, leveraging Confluent Kafka within the Azure Kubernetes Service (AKS) environment.
- Designed, implemented and optimized log synchronization solution between Azure Cloud and New Relic for sending ~10TB of log data per day in real time.
- Implement and continuously improved telemetry using monitoring and observability tools such as Azure Monitor, Azure Application Insights, New relic
- Served as a first point of contact while resolving technical issues related to APIm Platform, API code and infrastructure issues, participated in post-mortems and firedrills, as well as followed up with the business users to verify customer satisfaction and improve processes
- Propelled the adoption of Redocy CLI tool for OpenAPI specification validation across the enterprise
- Prepared alert handling procedures, runbooks, and collaborated with the off-shore SRE teams

Tools and Technologies:

GitOps, Azure Cloud, Terraform, Ansible, Chef, Azure DevOps, Jenkins, Linux, Kubernetes, Helm, Docker, Azure CosmosDB (SQL API, Mongo API), MongoDB, Redis, Python, Bash, Powershell, New Relic, Azure Monitor, Maven, Gradle

Senior Systems Engineer (DevOps)   Sep, 2021 – March 2022

- Collaborated on continuous improvement initiatives, applying the "shift left" principle.
- Introduced git hooks for pre-commit checks and linting on developers' workstations.
- Contributed to the development and execution of a branching strategy.
- Automated the generation of release notes using Python and Jinja2 to build markdown files to be published to project documentation.
- Designed architecture for high availability and disaster recovery of Azure Cloud based infrastructure in collaboration with project and Microsoft architects.
- Designed and implemented Infrastructure as Code (Terraform) solution for resilient Azure Cloud infrastructure, ensuring scalability and reliability.
- Contributed in planning and implementation of branching strategy on the project
- Managed and troubleshot on-premises deployments utilizing Jenkins and Ansible, ensuring smooth and reliable operations.
- Created automated pipelines to execute UI tests for on-premises applications, enhancing testing efficiency and accuracy.
- Served as a mentor and primary point of contact for Engineering Co-op team members, fostering skill development and knowledge sharing.

Tools and Technologies:

GitOps, Python, Bash, Powershell, Terraform, Azure Bicep, Azure Cloud, Azure DevOps, Jenkins, Ansible

Systems Engineer (DevOps)   Feb, 2021 – Aug 2021

- Developed, configured and supported Azure DevOps CI/CD build and release pipelines for build and deployment, including preparation of IaC and powershell scripts for the pipelines
- Developed IaC (Terraform) for infrastructure deployment, including microservices, APIm provision and Monitoring infrastructure
- Refactored IaC code for resilience and high availability
- Developed widely reusable components, such as CI/CD pipelines, Python and Powershell scripts, Terraform modules, Docker images
- Built automation for deploying IaaS Sitecore CMS solution in Azure
- Maintained and troubleshot Azure Cloud microservises infrastructure
- Contributed to the migration of workloads from AWS to Azure Cloud.
- Improved Azure infrastructure resilience by refactoring Terraform code.

Tools and Technologies:

Azure Cloud, Azure DevOps, Terraform, Nuget, TDS, Azure Monitoring

Systems Engineer (Site Reliability/DevOps)   Feb, 2019 – Jan, 2021

- Built DevOps processes for the customer from scratch
- Developed, configured and supported Azure DevOps CI/CD pipelines and scripts (Powershell) for build and deployment
- Build CI/CD and automation for Salesforce integration based on Azure Logic Apps using ARM templates and Azure DevOps.
- Managed websites configuration in Akamai CDN

- Built CI/CD and software packages management process for an enterprise solution, which was then used in migration of 40+ websites to a new architecture.
- Contributed to the solution for organizing unstructured log data using Elastic.
- Participated in building and implementing roadmap for migration of 36 language versions of a CMS based website to Azure Cloud, actively communicating with stakeholders and content managers
- Build processes, operational runbooks and automation for hardware resources utilization management in on-premises and in cloud infrastructure to prevent outages
- Served as escalation point for resolving Priority 1 incidents on infrastructure environment in 24/7 mode
- Performed regular and on-call support tasks: analyzed and resolved issues with websites and infrastructure; analyzed logs and proceeded with investigations when necessary
- Analyzed and improved the efficiency, scalability and stability of installed systems and tools

Tools and Technologies:

Azure Cloud, On-premises servers, Azure DevOps, Powershell, Bash, Nuget, TDS, New Relic, Windows IIS server, Akamai

Trainee/Intern   **Sep, 2018 – Jan, 2019**

- Performed installation and configuration of various Linux distributives with pre-configured web servers (Apache, Nginx) using Vagrant
- Wrote Python/Bash/Powershell scripts to automate routine tasks
- Built CI/CD for cloud deployments using Jenkins (Azure Cloud, AWS)
- Used Terraform and Azure RM templates to deploy infrastructure in the cloud.
- Troubleshot Linux networking issues

Tools and Technologies:

Azure Cloud, AWS, Vagrant, Packer, Linux, Apache HTTP Server, Nginx, Python, Bash, Powershell, CMake

ZAO "Sevzapmontazhavtomatika"

Production and technical department technician   **Aug, 2016 – Dec, 2018**

The company provides services in a field of electrical assembly, mounting and adjustment of control and measuring instruments
- Installed, configured and used software for data analysis, forecasting and budgeting
- Ensured the relevance of databases by regularly maintaining and updating them with the latest regulatory and reference data (SQL database).
- Played a role in the administration of the organization's networking and computing systems.
- Prepared documentation in compliance with regulatory requirements
- Installed, configured and used software for data analysis, forecasting and budgeting(SMR-Pro)
- Maintained and updated databases with the latest regulatory and reference data (SQL database)
- Created and submitted estimate reports or bids to appropriate persons
- Resolved conflicts with the customer
- Built relationships with key vendors (subcontractors, suppliers, engineers etc.)
- Implemented Quality Management System ISO 9001-2015

Tools and Technologies:

Windows, Linux, SQL database

HOBBIES AND INTERESTS

- Hobbies:
  - Music, including piano playing and singing, especially within a group of musicians. I've been a part of Angel City Chorale for several seasons, actively engaging in community outreach and fostering a sense of unity among fellow musicians.
  - Enthusiastic solver of brain teasers, puzzles, and riddles as a leisure pursuit.
  - Reading
- Foreign languages and linguistics