

BOAZ RAZ

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DevOps Systems Administrator – Systems Engineering

Results-driven DevOps and Systems Engineer with 10+ years of expertise in managing and automating infrastructure for 1,400+ servers, streamlining CI/CD pipelines, and delivering high-performance systems across Azure, Kubernetes, and hybrid cloud environments.

Programming languages include Ansible • AWX • Argo • PowerShell • Python • Docker • C++ • Linux • JavaScript • SQL • Perl • Kubernetes

Proven leader in both military and systems engineering, modeling high degree of professionalism and commitment to goals

Demonstrated organizational, time management, and priority setting expertise

Firm commitment to quality and accuracy

Strong interpersonal, written, and oral communication skills

Enthusiastic self-starter with a strong work ethic and “never give up” attitude

EXPERIENCE

DevOps System Administrator

2022 – present

Indiana University – Bloomington, IN

- Designed and launched the EWA Portal — self-service VM provisioning: containerized app (Docker, Helm) on IU Kubernetes with GitHub Actions approval workflows, Jira/Teams integration, and CIS-hardened post-builds via vCenter API. 50+ VM builds and 250+ self-service submissions (builds, disk/memory/CPU changes, decommissions); parallel builds of 10+ servers vs 1–2 before.
- Architected a Microsoft DSC v3 configuration-management platform from scratch: Azure DevOps pipelines, CMDB-driven role assignment, hourly convergence — ~100 hosts under management, rolling out to 1,400+; config deployment 5–10x faster; 57 of 60 epic stories shipped; security baselines (SMB, TLS, Kerberos, firewall) codified as code.
- Migrated the team PowerShell module (32 submodules) from 5.1 to PowerShell 7; built GitHub Actions self-hosted runner hosts (20 agents); inventoried 291 scheduled tasks and migrated 50+ off the legacy job server.
- Extended Grafana/Prometheus monitoring: SQL Server Always On paging to on-call, Grafana→ServiceNow ticketing PoC, CMDB-driven alert muting, 44-server dashboards, Kubernetes namespace/pod alerts.
- Automated patching with Azure Arc: VMware Tools updates via Logic Apps/Automation runbooks, SQL AG failover integration, 42-server patch groups; remediated 24 Qualys/Tenable findings; Key Vault secrets via service principal.
- Led Argo Events website-deploy automation — 70+ step Kubernetes workflows; deploys from hours to ~7 min.
- Automated patching, monitoring, and configuration across 1,400+ Windows servers via AWX/Ansible — 80% less manual work, 99.95% uptime.
- Mentor junior engineers on Ansible/Kubernetes; serve as project lead.

Indiana University – Bloomington, IN

- Provided systems analysis and programming and developed innovative solutions for network management systems.
- Worked on DevOps tasks to support various System administration on many productions servers (monitoring, server installation, security updates etc.).
- Helped establish Network and System Automation systems by using open-source tools.
- Wrote Puppet manifests and modules to deploy, configure, and manage servers.
- Automated build and deployment using Jenkins to reduce human error and speed up production processes.
- **Reduced deployment time for critical agile project infrastructure from ~1 month to 2 days.**

EXPERIENCE *continued*

- Installed and configured Nagios to constantly monitor physical and virtual Linux servers, memory usage, and hard drive status.
- Actively managed, improved, and monitored cloud infrastructure on OpenStack, Windows Servers, and CentOS7 including backups, patches, and scaling
- Automated deployments for 50+ physical servers using Python, Perl and Ansible scripts.
- Set up and managed and maintained 100+ Linux servers with 99.95% up-time.
- Worked closely with customer requests from servers' installation, troubleshooting and network devices such as IU, Internet2, NOAA.
- Worked with high security clearance due to work on National Oceanic and Atmospheric Administration (NOAA government) agency.
- Added custom Nagios monitoring scripts to ensure high servers and service availability for various functionality.
- Added Puppet modules to ensure stability, consistency across new and existing Linux servers.
- Deployed new automation tool AWX (Ansible) to improve maintenance on 200+ servers. With redundancy to ensure high availability.

Marine Chief Engineer

2002 - 2005

Israeli Defense Force – Eilat, Israel

- Held complete responsibility for operation of engine room and any maintenance of onboard machinery: main engine, generators, hydraulic pumps, freshwater system, fire suppression system, fuel, 480VAC - 110VAC, and 12 - 24VDC system.
- Worked closely with Captain, occasionally holding equal rank, to ensure vessel's physical aspect always top grade.
- Worked within small team to ensure all maintenance and inventory was completed efficiently and thoroughly.
- Determined volume of oil, fuel and lube required for each voyage and ensured sufficiency.
- Oversaw repairs and scheduled maintenance of up to eight vessels at a time and insured year-round readiness.
- Responsible for organizing and carrying out thorough weapon and navigational and communication systems trainings.

EDUCATION**BS in Computer Science - Software Engineering**

2016

Indiana University/Purdue University – Indianapolis, IN

- Capstone Project: Drone & AI – Developed detection software to track and follow objects using drone and deep learning in real time
- **Internships included:**

Systems Engineer / University Information Technology Services (9/2016 - 1/2017)

Indiana University – Bloomington, IN

- Developed internet usage (bandwidth) report for various customers using Perl and internal API
- Delivered technical support and solutions for problems related to developed software and systems
- Collaborated with a team using operational workflows and procedures with impact across teams

Software Developer / SPRINGBUK (5/2014 – 5/2015)

Indianapolis, IN

- Developed Service Analysis software (SaaS) utilizing Ruby on Rails, handling both front-end and back-end development.
- Performed test-driven development using Cucumber.
- Utilized GitHub as version control and Pivotal Tracker for Agile project management.
- Performed Bootstrap development.

Associate, Mechanical Engineering

2002

Kadoorie School of Agriculture – Tabor, Israel

Key Skills

- CI/CD Pipelines: Azure DevOps, Argo CD
- Infrastructure as Code: Ansible, AWX, Terraform
- Monitoring and Alerting: Grafana, Prometheus, Nagios
- Container Orchestration: Kubernetes, Docker
- Scripting and Automation: PowerShell, Python