

# Pushpreet Singh Sethi

DevOps Engineer

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## Experience & Summary

He has around over 4.5 years of experience in the IT industry. I offer experience in Automation IaC and DevOps. I have skills in working on Azure, Azure DevOps, AWS, Scripting (PowerShell, Bash, Python), Git, ELK Stack, Monitoring, Ansible, Chef, Puppet, and ServiceNow. He has exposure in administration, automation, and operations across various physical and virtual platforms (Windows/Linux) including continuous integration (CI) and continuous deployment/delivery as an iterative process and automation of Infrastructure as Code.

## Trainings and certifications

- Exam 532: Developing Microsoft Azure Solutions
- Exam 533: Implementing Microsoft Azure Infrastructure Solutions
- Exam 535: Architecting Microsoft Azure Solutions

## Skill set

- Gave multiple successful demos with self-created use cases to the client

<b>Programming and scripting languages</b>	PowerShell, Bash, Python, JSON, YAML, Azure DSC
<b>Cloud Platform</b>	Microsoft Azure, AWS
<b>Frameworks, tools, and libraries</b>	ELK Stack, ServiceNow, JIRA,
<b>Version Control Tools</b>	GIT, TFS
<b>Orchestration Tools</b>	VRO, ITPAM, SCORCH
<b>Configuration Tools</b>	Ansible, Puppet, Chef, Terraform.
<b>Databases and BI</b>	MS SQL, MySQL, SQL Server 2008, Database Engines integration services
<b>Devices and OS</b>	Linux (RedHat, Ubuntu), UNIX, Windows (2008R2, 2012, 2016, DC etc.).
<b>Monitoring Tools</b>	Azure Monitoring
<b>Virtualization Tools</b>	Docker, VMware, VM Virtual Box

## Education

- Bachelor of Technology, Computer Science and Engineering, Guru Tegh Bahadur Institute of Technology, New Delhi, India

## Honors and awards

- Received multiple appreciations from client for the tasks automated
- Received best automation award for achieving 57% automation in 35% automation environment

## Recent projects

### Cloud Engineer

<b>Company</b>	Ameriprise Financial
<b>Client</b>	Cloud Enablement and Cloud Core Servcies
<b>Duration</b>	Sept 2020 – Present
<b>Project overview</b>	Project involved cloud infrastructure automation, POC's, Migration and Enablement.
<b>Technologies</b>	Azure, Ansible, AWS, Terraform, PowerShell, CyberArk, ServiceNow.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Enhancing Previously Created templates over Ansible Tower.</li><li>• Enabling Azure as a cloud service though-out the ORG.</li><li>• Writing policy framework and remediating the compliance issues</li><li>• Implemented Azure policies in Terraform.</li><li>• Creating Azure Pipelines for swift deployment of resources.</li><li>• Written scripts to fetch data from Cloud and insert into database.</li><li>• Creating complete automation catalogue from ServiceNow to provision resources in Azure.</li><li>• Enabling Windows 2019 operationalization through-out the organization.</li></ul>

### DevOps Engineer

<b>Company</b>	Nagarro Software Pvt. Ltd.
<b>Client</b>	DevOps COE
<b>Duration</b>	Feb 2020 – Aug 2020
<b>Project overview</b>	Project involved cloud infrastructure automation and support.
<b>Technologies</b>	ELK stack, Docker, Azure, PowerShell, Azure monitoring, MySQL
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Implemented a POC to integrate ELK Stack to an existing appliance framework for real time log aggregation, analysis and querying (Elasticsearch, Logstash, Kibana) over Docker.</li></ul>

	<ul style="list-style-type: none"><li>• Written CIS Microsoft azure foundations benchmark Policy's</li><li>• Written Remediation scripts for Policies.</li><li>• Implemented Azure policies in Terraform.</li><li>• Worked on NSC (Naggaro In-house Cloud Management Tool)</li><li>• Written scripts to fetch data from database and insert into database.</li></ul>
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## Cloud Automation, DevOps and Support

<b>Company</b>	Nagarro Software Pvt. Ltd.
<b>Client</b>	A South Korean multinational conglomerate headquartered in Seoul
<b>Duration</b>	August 2019 – Feb 20
<b>Project overview</b>	Project involved cloud infrastructure automation and support.
<b>Technologies</b>	Power Shell, JSON API, scripting, monitoring, log management, Logstash, Ansible, VMWare, Docker, Kibana
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Elasticsearch and Logstash performance and configuration tuning.</li><li>• Written the Grok pattern in LogStash.</li><li>• Configuration, indexing, Queries, Aggregations, mapping and text analysis for the captured logs.</li><li>• Successfully integrated Ansible to Logstash via JSON API's to fetch Logs.</li><li>• Implemented Ansible Playbooks for OS and infrastructure Automation.</li><li>• Worked in agile methodology to develop and automate the complete infrastructure.</li><li>• Worked on roles creation and standardizing the playbooks for client environment.</li><li>• Deployed and used Red Hat Ansible Tower to centrally manage existing Ansible projects, playbooks, and roles</li><li>• Configured users and teams and used them to control access to systems, projects, and other resources through role-based access controls</li></ul>

## Cloud Automation, DevOps and Support

<b>Company</b>	HCL Technologies
<b>Client</b>	A Swedish multinational clothing-retail company.
<b>Duration</b>	January 2019 – July 19
<b>Project overview</b>	Project involved cloud infrastructure automation and support.
<b>Technologies</b>	ELK Stack, monitoring, log management, Azure, Power Shell, JSON (ARM Templates), Azure DevOps, scripting, database.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Used ELK (Elasticsearch, Logstash and kibana) for name search pattern for a customer.</li><li>• Installed logstash rpm and started the logstash in our environment.</li><li>• Used elasticsearch for name pattern matching customizing to the</li></ul>

	<p>requirement.</p> <ul style="list-style-type: none"><li>• Installed logstash-forwarder and run logstash-forwarder to push data</li><li>• Used Kibana plugin to visualize for elasticsearch.</li><li>• Implemented ARM templates to deploy the whole infra in Hub and spoke model</li><li>• Worked in agile methodology to develop and automate the complete infrastructure</li><li>• Implemented a whole backup mechanism to backup PAAS DB services</li><li>• Developed tag-driven monitoring and backup automation</li><li>• Automated tasks using Azure pipelines (Azure DevOps)</li><li>• Storing all logs to EventHub and Passing to ELK for creating views.</li><li>• Implemented:<ul style="list-style-type: none"><li>– Alert-based automation tasks to deploy post provisioning tasks on the go</li><li>– Azure automation runbooks to manage scheduled tasks</li></ul></li></ul>
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## Ansible Automations and DevOps

<b>Company</b>	HCL Technologies
<b>Client</b>	A privately held American corporation.
<b>Duration</b>	January 2018 – November 18
<b>Project overview</b>	Project involved Ansible tower administration and infrastructure automation using Jenkins where the playbooks were held on Git.
<b>Technologies</b>	AWS, Power shell, Python, Git, GitHub, Ansible, Ansible Tower, Jenkins, RHEL Linux
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Used Ansible Tower for configuration and provisioning of the AWS resources</li><li>• Created playbook for creation of VPC, subnets, route table, security groups, load balancer, auto scaling groups, etc.</li><li>• Created playbook that deals with the decommissioning of the AWS resources</li><li>• Implemented Docker in a CI/CD pipeline for instant deployment of applications- deployed containers, installed applications, port binding, linking containers, and log management</li><li>• Automated system administration tasks on managed hosts with Ansible by writing Ansible playbooks to standardize task execution</li><li>• Deployed and used Red Hat Ansible Tower to centrally manage existing Ansible projects, playbooks, and roles</li><li>• Configured users and teams and used them to control access to systems, projects, and other resources through role-based access controls</li><li>• Used Ansible Tower's visual dashboard to launch, control, and monitor Ansible jobs</li><li>• Used Ansible Tower application programming interface (API) to launch jobs from existing templates</li></ul>

	<ul style="list-style-type: none"><li>• Scheduled automatically, Ansible jobs and dynamically updated host inventories</li><li>• Maintained code using Git and GitHub</li></ul>
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## Process Automation

<b>Company</b>	HCL Technologies
<b>Client</b>	Based in Zurich, Switzerland, the client is the world's largest human resources provider and temporary staffing firm in the world.
<b>Duration</b>	January 17 – January 18
<b>Project overview</b>	Project involved the setup of new a data center and automating that using ITPAM and IAutomate for service requests and change request automation. 6000 servers were used to manage the set up.
<b>Technologies</b>	Azure, Power Shell, Json (ARM Templates), Azure DevOps, Scripting, Database, Monitoring, Log Management
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Created Power Shell scripts for automating AD, resource provisioning, and post provisioning through Azure</li><li>• Automated post-provisioning tasks using DSC scripting</li><li>• Automated tasks using ITPAM for database, networks, mailbox, and web applications</li><li>• Involved in creating highly available infrastructure for automating tasks by picking alerts from mailbox, creating tickets for the same, remediating the same, and if not, remediating's passing the same to designated teams</li><li>• Automated over 200 use-cases using the same approach</li></ul>