

# Janpreet Singh

<https://janpreet.com>

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## EDUCATION

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- **Master of Science in Information Systems** Jan. 2018  
Marist College, 3.34 Poughkeepsie, NY
- **Bachelor of Technology in Electronics and Communications Engineering** May. 2012  
Guru Tegh Bahadur Institute of Technology, 3.33 New Delhi, India

## SKILLS

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Kubernetes, Docker, Ansible, Terraform, Google Cloud, Git, GitHub Actions, Jenkins, Linux, Shell Scripting, Python, Java, Maven, Selenium, SQL, PHP, HTML, Javascript, jQuery, Qlikview, Splunk.

## EXPERIENCE

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- **Globalfoundries** Malta, NY  
Sr. Mfg Systems Engineer, SRE July 2020 - Present
  - Evangelizing and implementing SRE best practices by utilizing automated deployment procedures using BitBucket, Jenkins and Ansible, for faster deployments and roll-backs.
  - Created and implemented a Splunk dashboard to bring visibility to change requests, reducing the number of rejected tickets and increasing the release schedule by 50%.
  - Disposable Kubernetes cluster POC; created using Terraform and Google Cloud Platform. Sample Maven and Python applications built using Jenkins Docker Cloud and deployed using Helm to demonstrate the DevOps model. Wrote a custom Terraform module 'cluster-kubeconfig' to solve GKE module's lack of kubeconfig generation.
- Mfg Systems Engineer Jan 2019 - June 2020
  - Ensured 99.95% uptime of critical applications in a 24x7x365 environment by utilizing a comprehensive monitoring strategy in Splunk to automate detection and trigger response to incidents and outages. Reduced MTTR where automation was not possible by providing effective runbooks to Level 1 Support.
  - Developed, tested, and implemented a Java application to eliminate repetitive data entry tasks that saves \$9k worth of labor hours annually. Used Hibernate to interact with Oracle DB and Selenium libraries for automation where API access was not possible. Packaged the app using Maven & Docker and created a CI/CD pipeline to execute testing and deployment using Jenkins.
- AMHS Factory Automation Engineer Jan 2018 - Dec 2018
  - Helped the company save \$36k worth of labor-hours per year by replacing manual production control practices with an automated Qlikview report.
- AMHS Co-op Engineer May 2017 - Dec 2017
  - Constructed complex SQL queries to extract, compile and visualize tool information in Qlikview.
- **Geodis SCO** Poughkeepsie, NY  
Data Analyst Intern May 2016 - Dec 2016
  - Created a PHP based application to monitor employee training, including an integration with the Youtube API to control the page navigation.
  - Developed session and data-based Training Matrix tool using PHP, jQuery, and d3js to capture employee training performance with pending approval notifications, and automatic monthly report generation.

## PROJECTS

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- Raspberry Pi based highly-available Kubernetes cluster; deployed the hard way using only Ansible. Inspired by Kelsey Hightower. I created Roles for provisioning certs and bootstrapping cluster components including a highly-available control plane and etcd.
- Self updating GitHub README; created using Python and GitHub Actions. I wrote a custom Python module 'write2list' to convert a Tuple to a List for self-learning purposes.