Janpreet Singh

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EDUCATION

- **Marist College** — Poughkeepsie, NY
  M.S. Information Systems — Jan. 2018

- **Guru Gobind Singh Indraprastha University** — New Delhi, India
  B.Tech. Electronics and Communications Engineering — May 2012

SKILLS

Cloud: GCP, Azure, AWS; **Container & Orchestration:** Kubernetes, Docker, Rancher, Helm, Kustomzie; **IaC & Configuration Management:** Terraform, Ansible; **Monitoring & Observability:** Prometheus, Grafana, Splunk, Datadog; **CI/CD & Version Control:** Jenkins, Concourse, Git, Atlantis, Bitbucket, Azure DevOps, Cloud Deploy; **Databases & Data Management:** MongoDB Atlas; **Security & Service Discovery:** Hashicorp Vault, Consul; **Programming Languages:** Bash, Python, Go;

PROFESSIONAL EXPERIENCE

- **Unqork** — Remote, NYC
  DevOps Engineer — Nov 2021 - Jan 2023
  - Orchestrated management of 200+ Kubernetes clusters across AWS/Azure, markedly reducing incident response times while being on-call 24x7.
  - Pioneered multi-cloud solutions, resulting in improvements to overall system reliability.
  - Demonstrated initiative by developing a custom tool from scratch to address urgent customer data migration needs, ensuring 100% customer satisfaction and showcasing ability to rapidly deliver solutions to complex problems.

- **Caissa LLC (Now part of MSCI via Burgiss merger)** — Remote, NYC
  DevOps Engineer — May 2021 - Nov 2021
  - Engineered Terraform-managed VDI, DR AKS, and AWS MWAA integrated with Azure AD, significantly enhancing disaster recovery capabilities.
  - Re-engineered CI/CD pipelines with on-demand Kubernetes build-and-release agents, greatly reducing build times and improving efficiency.

- **Globalfoundries** — Malta, NY
  Sr. Mfg Systems Engineer, SRE — Jan 2018 - May 2021
  - Promoted from Mfg Systems Engineer in Jun 2020, expanding responsibilities in a critical 24x7 manufacturing environment.
  - Evangelized and implemented SRE practices, yielding substantial improvements in deployment speed and rollback efficiency.
  - Developed innovative Kubernetes POC using Terraform/GCP, to demonstrate optimized resource utilization.
  - Ensured high uptime with Splunk monitoring, and reduced incident response time by writing runbooks for Level 1 incident response team.
  - Created Java application for task automation, saving $9k annually, leveraging Hibernate and Selenium.

PERSONAL PROJECTS

- **Kado - IaC Orchestrator** — https://github.com/janpreet/kado
  Creator & Maintainer — 2024 - Present
  - Developed Go based and OPA policy enforced modular tool for Ansible, Terraform, and Terragrunt execution.
  - Implemented "bead" system for scalable configurations, and capabilities to leverage AI for smart recommendations.

- **Proxmox Homelab** — Personal Infrastructure
  DevOps Engineer — 2024 - Present
  - Built Proxmox-based homelab using Terraform with AWS S3 remote state.
  - Implemented IaC for VM, network, kubernetes, and storage management.