

# PATRICK M. SLATTERY

EMAIL | GITHUB | LINKEDIN | PERSONAL SITE WITH EXTENDED RESUME

SOUTH BURLINGTON, VT

## SKILLS

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**Expertise:** Linux | GCP | Automation | IaC | GitOps | Source Control Management | NetApp | Azure | Documentation | Mentoring

**Software:** Git | GitHub | Docker | Kubernetes | Helm | Packer | Terraform | nginx | Istio | Docusaurus | HAProxy | Ansible | ELK | ZFS

## EXPERIENCE

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**DevOps Architect** | *MyWebGrocer/Mi9 Retail/Wynshop Inc.*

2013 - 2024

*Specializing in DevOps automation, source control, and process improvement on a grocery eCommerce platform*

- Created and more importantly consistently enforced naming conventions for Google Cloud and GitHub.
- Introduced YubiKeys and enforced membership in Google's Advanced Protection Program for the DevOps team.
- Implemented IAC for all possible systems, progressively using shell, Terraform and Google Config Connector, managing just under 100 GKE clusters with up to 100 VM nodes each at peak, which drove ~\$1.2 Billion in total grocery sales.
- Evangelized an IAC driven Tailscale/HeadScale VPN to replace the prior ClickOps driven OpenVPN solution, saving \$10K of OpenVPN licensing fees annually and providing a far simpler to use and more reliable VPN access solution.
- Migrated from SVN to Bitbucket Server and then on to an IAC defined set of GitHub orgs driven by GitHub Safe Settings for GitHub settings and Peribolos for GitHub user and group management.
- Implemented automated scale to zero for non production GKE clusters on nights and weekends which saved 30% on cloud costs.
- Implemented a BreakGlass application to streamline developer access to environments while maintaining a full audit trail for SOC 2 compliance and reduced emergency pages to the DevOps team by 90%.
- Developed procedures to validate internal applications for production readiness.
- Created extensive documentation on all aspects of deploying and maintaining MyWebGrocer/Wynshop solutions. Provided best practices guidance for software engineers and documented solutions to their frequently asked questions.
- Implemented ephemeral self-hosted macOS and Linux build runners to reduce GitHub build costs by ~50%.
- Implemented preemptible nodes in GKE for every internal app that could possibly use them to reduce environment costs by up to 40%.
- Got top scores on the [Four Golden Signals for GKE](#) from Google.
- Migrated the legacy WSO2 API gateway to use HAProxy instead. This saved over \$100K per year in licensing fees alone and greatly improved uptimes and on-call engineer happiness.
- RELK (Redis Elastic Logstash Kibana) Initially a project I created for my 2015 summer intern, to parse and analyze our weblogs, this spread to analyzing all system activity logs company wide until we moved to Google.
- Applied the knowledge gained from RELK to migrating from source/replica MySQL and Microsoft SQL Server databases to a sharded and replicated document store in Elasticsearch for use by the API layer. This cut costs by ~50% and was about 10 times faster.
- Implemented migration from LVM to ZFS for data storage volume on Linux systems, setup automatic data snapshots and replication using `zfs send` between data-centers on cloud VMs.
- Evangelized Docker and was the driving force behind migrating several critical internal systems to Docker in early 2014, only 1 year after the initial release of Docker.
- I played an active part in mentoring interns at MyWebGrocer into going beyond what they themselves thought themselves capable of achieving. The interns I mentored directly credited me with gaining both the hard and soft skills necessary to get excellent jobs straight out of college.

**Principal Systems Engineer** | *GE Healthcare*

2002 to 2013

*Specializing in automation, virtualization, storage and source control for radiology applications*

- Introduced Perforce to replace SourceUnSafe for source control, this spread to many other divisions of the company.
- Introduced VMware virtualization for dev and test environments which greatly improved our hardware utilization rates.
- Introduced NetApp storage for NFS and block (FC and iSCSI) storage. This gave us the ability to use writable snapshots for repeatable testing.
- Later introduced Tintri storage to replace NetApp NFS/SAN for virtualization storage which dramatically reduced latency.
- Created scripted golden images for factory and field deployment of GE RIS and PACS systems.
- Provided level 4 support for GE Healthcare Centricity RIS-IC and PACS product lines. Frequently traveled to customer sites across the USA to resolve issues that had risen to executive level.

## EDUCATION

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**Technological University of the Shannon**

**Associates** | *Polymer Engineering*

*Athlone, Ireland*

**City & Guilds certificate** | *AutoCAD*