

Sean Gatewood

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Summary

Senior-leaning DevOps / Platform Engineer with a focus on the **dev** side of DevOps. I build scalable, reproducible, and reliable production environments with Kubernetes ecosystems, Infrastructure as Code, and CI/CD pipelines. I bring strong development skills to the infra world, elevating production environments with seamless automation, custom microservices, and even proactive application-level fixes.

Experience

DevOps Engineer, Digital Asset (New York, NY / remote) April 2023 - present

- Develop and maintain infrastructure and automation around critical kubernetes services, applying SRE practices to ensure reliability and minimize manual operational toil.
- Automated the deployment of a new mission-critical service in a dedicated GKE cluster with all supporting cloud infrastructure. Utilized Terraform, Jsonnet, Bash, and Helm to automate deployments and orchestrate complex blockchain migrations. Instrumented monitoring/alerts with DataDog and regularly use it to tune our configuration. Communicated designs with partner companies, helping them overcome similar hurdles and accelerating the launch of our blockchain network. Uptime requirements were extremely high -- any downtime required auditing financial losses.
- Expanded production monitoring capabilities by authoring a custom Prometheus metrics exporter in Go, providing a programmatic framework to close critical gaps in observability.
- Authored a custom k8s operator in Go to streamline our backup/restore process, eliminating manual operational tasks on a product that was entering maintenance mode.
- Developed CI/CD pipelines using Google Cloud Build and CircleCI.
- Participated in on-call rotations, triaging a multitude of production alerts and maintaining the reliability of our services.
- Built isolated blockchain test environments in both k3d (for local dev) and vClusters, enabling developers to effortlessly spin up fully independent networks.

Software Engineer II, Appian Corporation (McLean, VA / remote) August 2020 - April 2023

- Worked on a Development Experience team that created and maintained a variety of developer tooling and infrastructure, gaining a unique perspective on usability that continues to shape my tooling designs today.
- Contributed to a remote development solution, including a custom Kubernetes service to lease EC2s and a python tool to build/develop/test the product remotely (rather than on your own machine).
- Architected and developed a Gitlab pipeline to precook warm builds that developers could take and use instantly rather than waiting to build from source, providing an extremely fast setup to "test something on a recent main build."
- Regularly initiated & led architectural design discussions, and spiked a wide variety of prototypes.
- Regularly unblocked developers by assisting in troubleshooting technical issues, improving our local build stability.
- Treasured high code quality standards and contributed to our data-driven goal to lead the department in code quality.
- Mentored two interns as a Summer Intern Manager, meeting with them weekly to optimize their internship experience.

Teaching Assistant - Introduction to Programming, University of Virginia (Charlottesville, VA) Fall 2017 - May 2020

- Assisted hundreds of students with introductory programming concepts in Python.
- Created [review videos](#) that have received over 13,000 views.
- Helped manage the course as one of four "Head TAs."

Selected Skills

Languages Python, Bash, Go, Java, TypeScript, C++	Kubernetes Helm, Helmfile, FluxCD, Istio, Custom Operators	Monitoring Grafana, Prometheus, Datadog
Cloud Platforms GCP, AWS	Infrastructure As Code Terraform, Pulumi	CI / CD GitLab, Github Actions, CircleCI, GCB, Jenkins
Cloud Resources ("I've terraformed it!") Compute (GKE Cluster, Node Pools, Persistent Disks, Snapshot Schedules, VMs), Networking (VPC, Subnet, Cloud NAT, L7 Application Load Balancer, MCI, Cloud DNS, Google-Managed Certificates), Security (IAM, RBAC, Secrets Manager, Cloud Armor, Service Accounts, Workload Identity)		Other Docker, Docker Compose, SQL, LaunchDarkly, MermaidJS, Nix, Jsonnet, Auth0, Kotlin, Gradle, Linux, jq, Justfile, Git, GitHub

Side Projects

- [This Resume](#): Written in YAML and templated into the document you are reading. :-)
- [JobDeployment controller](#): Spiked an idea I had using [kubebuilder](#) to solve a DX problem with deploying Job objects in helm charts.
- [gcloud-fzf](#): Wrote a Go CLI I wanted. The interesting part is I actually distributed it via homebrew.
- [Portfolio site](#): Used an old Jekyll theme I liked to serve as my website. Includes some interesting dark mode & MermaidJS hacks.

Education

University of Virginia (May 2020) Rodman Scholar, Raven Society

- B.S. Computer Science. GPA 3.95

Notable Courses: Computer Graphics, Algorithms, Introduction to Cybersecurity, Software Testing