Sean Gatewood

hello@sgatewood.dev | in sean-t-gatewood | ○ sgatewood

>> 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

>> 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 effective designs with partner companies, helping them overcome similar hurdles and accelerating the launch of our blockchain network.
- Expanded production monitoring capabilities by authoring a custom 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.

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."
- Initiated & developed numerous prototypes, many of which shipped (or became real quarter-long features for my team).
- Regularly initiated & led architectural design discussions.
- Regularly assisted developers in troubleshooting technical issues, both to help unblock them and to find ways to improve our local build stability.
- Treasured high code quality standards and contributed to our data-driven goal to lead the department in code quality and component health.
- Mentored two interns as a Summer Intern Manager, meeting with them weekly to optimize their internship experience.

Software Engineering Intern, Uber Advanced Technologies Group (Pittsburgh, PA)   May 2019 - August 2019
- Developed and benchmarked alternate implementations for a key-value store using various database technologies (e.g. LevelDB, Sqlite3).
- Presented results to Uber ATG software engineers.

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."

Software Engineering Intern, NASA Langley Research Center (Hampton, VA)   May 2018 - May 2019
- Created data management tools for "airborne atmospheric composition data"
- Engineered a full-stack web application (JQuery, AJAX, cgi, C++) for atmospheric researchers to create customized data merges.

>> Skills (non-comprehensive)

- **Languages:** Python, Bash, Go, Java, JavaScript, C++, Kotlin
- **Cloud infra ("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 technologies:** Kubernetes, GCP, Helm / Helmfile, Terraform / Pulumi, CI/CD pipelines (Gitlab, Github Actions, CircleCI, GCB), FluxCD, Istio, MermaidJS, Nix, Docker, Feature Flags / LaunchDarkly, Docker, SQL, AWS, Auth0

>> Projects

This Resume   February 2022 - present
- I didn't have Microsoft Word anymore, so I wrote this in YAML and rendered it into the document you are reading. :-)
- This was just more fun than LaTeX (and it's super nice to tweak my resume with vim and git)

JobDeployment controller   Summer 2025
- Mostly just wanted to get my hands on kubebuilder
- This could in theory solve a DX problem I had with deploying kubernetes jobs from helm

gcloud-fzf   Spring 2025
- Made a go CLI that I wanted for a hyper-specific use case
- The interesting piece is I can install it through my own homebrew tap!

Portfolio site   Spring 2022
- Sorta abused an old Jekyll theme I liked to serve as a portfolio site
- Includes some interesting hacks including dark mode and some MermaidJS magic