

# Alex Lundberg

<https://lundbird.github.io>

<https://medium.com/@lundbird>

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Milwaukee, WI

## EDUCATION

### • University of Wisconsin Madison

*B.S. Computer Science; GPA: 3.75/4.00*

Madison, WI

*May 2019*

## EXPERIENCE

### • CommonBond

*DevOps Engineer*

New York City, NY

*July 2019 - Current*

- **GitlabCI:** Created new CI for golang projects which added parallelized build/test, code quality/security, isolated regression testing, and consistent Kubernetes/ArgoCD deployments. Migrated majority of existing projects to new CI
- **AWS:** Managed all AWS infrastructure with Terraform. Created resources for new projects, and modularized existing Terraform code and common infrastructure.
- **Kubernetes:** Managed Kubernetes cluster autoscaling and performed upgrades using Kops. Installed third-party tools using Helm. Used Traefik to control routing and firewalls.
- **Prometheus:** Created or imported all Prometheus alert rules/routing and grafana dashboards. Researched and deployed multi-tenant long-term storage solution for Prometheus with Victoria-Metrics.
- **Service-Mesh:** Demo'd service-mesh solutions Istio, Linkerd, and Maesh. Championed Linkerd service-mesh within company. Deployed Linkerd with custom dashboard which dramatically improved monitoring with route level metrics
- **On-Call:** Participated in on-call rotation with other DevOps engineers. Resolved errors in Gitlabci, Jenkins jobs, lambdas, firewalls, DNS, schema changes, Looker reporting, ETL failures, and Kubernetes deployments.
- **Data Engineering:** Architected new ETL framework using AWS-Glue. Created Terraform modules to create infrastructure cleanly and pyspark libraries to perform common transformations. Trained analytics team in usage.
- **GitOps:** Created templated Kubernetes manifests which use Kustomize to management environment configuration and ArgoCD to synchronize git changes. Updated all active projects to use new templates.

### • S&C Electric

*DevOps Engineer Intern*

Chicago, IL

*May 2018 - Aug 2018*

- Configured new testing machines into Jenkins pipelines. Troubleshooted build errors and network configuration.

### • S&C Electric

*Software Engineer Intern*

Chicago, IL

*Sep 2017 - Dec 2017*

- Created ML models with pandas and sklearn to predict failure causing events on injection molding machines

### • Domtar

*Software Engineer Intern*

Nekoosa, WI

*Jan 2017 - Aug 2017*

- Developed C# apps that pull metrics, set limits, and display alarms/logs to operators and management.

## SELECTED PROJECTS AND CONTRIBUTIONS

- **Gitlab-Python API:** Adds Gitlab-Kubernetes cluster management feature to popular open-source project that provides a python API to manage Gitlab
- **Linkerd Route Dashboard:** Provides a grafana dashboard showing route-level metrics for the Linkerd service-mesh
- **Redis Helm:** Discovered and provided MR to fix bug preventing high-availability of redis-clusters running on Kubernetes. Improved Helm chart customizability.
- **AutoGui:** Personal open-source Python/C# library for Windows GUI automation/testing using element properties

## PROGRAMMING SKILLS

- **Technologies:** Git, Gitlab, Kubernetes, Jenkins, AWS, Terraform, Prometheus, Redshift, Looker, NATS
- **Languages:** Golang, Python, Java, C, SQL, C#

## ACTIVE CERTIFICATIONS

- AWS Solution Architect Associate, AWS Developer Associate, AWS SysOps Administrator Associate, Certified Kubernetes Administrator(CKA), Certified Kubernetes Application Developer(CKAD)