

# Alex Lundberg

<https://lundbird.github.io>

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

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Milwaukee, WI. Open to relocation

## EXPERIENCE

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- **CommonBond** New York City, NY  
*DevOps Engineer* July 2019 - Current
  - **GitlabCI**: Created CI for go projects which added parallelized build/test, code quality/security, regression tests, environment provisioning, and Kubernetes/ArgoCD deployments. Migrated majority of existing projects to new CI
  - **Terraform**: Managed all infrastructure with Terraform. Standardized all new terraform into two monorepos to manage resources and modules. Added Terragrunt tests, linting, and auto-docs. Used Atlantis for approvals.
  - **Kubernetes**: Maintained three Kubernetes clusters. Managed cluster autoscaling and upgrades using Kops. Installed third-party apps using Helm. Controlled routing with Traefik. Managed all application manifests in a monorepo.
  - **Prometheus**: Maintained Prometheus as monitoring and alerting solution. Created Prometheus rules 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 data lake ETL framework with AWS-Glue. Created Terraform modules to deploy infrastructure and pyspark libraries to perform transformations. Setup connection to Snowflake.
  - **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.
  - **Security**: Imported paloalto VPN into Terraform and created a backup solution using a standby replica and automated DNS failover. Implemented 2FA integration with onelogin identity provider.
  - **Management**: Managed two engineers for four months. Migrated project management from Jira to Gitlab. Standardized support requests with templates. Ran all agile ceremonies
- **S&C Electric** Chicago, IL  
*DevOps Engineer Intern* May 2018 - Aug 2018
  - **CI**: Configured new testing machines into Jenkins pipelines. Troubleshooted build errors and network configuration.
- **S&C Electric** Chicago, IL  
*Software Engineer Intern* Sep 2017 - Dec 2017
  - **ML**: Created ML models with pandas and sklearn to predict failure causing events on injection molding machines
- **Domtar** Nekoosa, WI  
*Software Engineer Intern* Jan 2017 - Aug 2017
  - **.NET**: Developed C# apps that pull metrics, set limits, and display alarms/logs to operators and management.

## SELECTED PROJECTS AND CONTRIBUTIONS

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- **Gitlab-Python API**: Adds Kubernetes cluster management feature to Gitlab api.
- **Linkerd Route Dashboard**: Provides a grafana dashboard showing route-level metrics for the Linkerd service mesh
- **Redis Helm**: Provided fix to bug preventing high-availability of redis-clusters running on Kubernetes.
- **AutoGui**: Personal open-source Python/C# library for Windows GUI automation/testing using element properties

## PROGRAMMING SKILLS

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- **Technologies**: Gitlab, Kubernetes, Airflow, AWS, Terraform, Prometheus, Snowflake, Looker, NATS, Docker
- **Languages**: Golang, Python, Java, C, SQL, C#, NodeJS

## EDUCATION

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- **University of Wisconsin Madison** Madison, WI  
*B.S. Computer Science; GPA: 3.75/4.00* May 2019

## ACTIVE CERTIFICATIONS

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