Alex Lundberg

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EDUCATION

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

EXPERIENCE

- **CommonBond** — New York City, NY
  DevOps Engineer — *July 2019 - Current*
  - **GitlabCI**: Created new CI for golang projects which added parellelized 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** — 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

- **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)