

ZACH LIPP

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Machine Learning, DevOps, & Data Engineer

EXPERIENCE

gradient Transformative Solutions *Software Engineer II*

Chicago, IL (Remote)
April 2020 - Present

- Supported a complex distributed system spanning dozens of containers and several Helm charts
- Automated regular backups of Apache Cassandra
- Deployed a VoIP (SIP, RTP) app in Kubernetes

Lumere *Senior Software Engineer*

Chicago, IL
August 2019 - April 2020

- Re-architected the entire machine learning system, including:
 - Migrating the existing pipeline from Amazon ECS to Amazon EKS
 - Selecting and deploying a machine learning experimentation tracking service
 - Automating the existing machine learning pipeline from start to finish
 - Configuring CI/CD to deploy new models with the push of a button
 - Speeding up prediction processing by 5 orders of magnitude

Crowe *Group Lead, Data Science* *Data Scientist I / II*

Chicago, IL
June 2019 - August 2019
February 2018 - June 2019

- Managed a team of scientists and engineers developing a data-agnostic anomaly detection service
- Engineered data science products from prototype to production; comprising research, training, containerizing, serving, and deploying on Kubernetes
- Developed and deployed CNNs for short text classification

Civis Analytics *Applied Data Scientist*

Chicago, IL
July 2016 - February 2018

- Led engineering and modeling on an expansive engagement that grew to the company's largest
- Developed and analyzed over a dozen large-scale natural experiments using Bayesian methods

VOLUNTEERISM

The Barry Foundation *Engineer, Nonprofit mapping tool and data cleansing*

Winter 2016 - Present

Bernie Sanders 2020 *Engineer, Proof-of-Concept Outreach Tool*

Fall 2019

The Roosevelt Institute *Lead Data Analyst, Next Generation Blueprint 2016*

Fall 2016

SKILLS

Cloud engineering: Linux, Git, Docker, Networking, Kubernetes, Helm
Machine learning libraries: PyTorch, Keras and TensorFlow, scikit-learn, numpy, pandas

EDUCATION

Concordia College B.A. Mathematics, *Regents' Scholar*

Moorhead, MN
2016

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD)