

# Lucas Sproule

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## SUMMARY

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Passionate DevOps engineer with a strong background in CI/CD, Terraform, Kubernetes and Cloud Computing. Skilled in Python, JavaScript, Ruby, and Bash Scripting. Excellent problem-solving, design, and collaboration abilities. Seeking a challenging role to develop cutting-edge Cloud Infrastructure.

## TECHNICAL SKILLS

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**Programming Languages:** Python, JavaScript, SQL, Ruby, Bash, Golang, C++

**Cloud Vendors:** AWS, GCP, Azure, IBM Cloud, DigitalOcean

**Tools:** Docker, Kubernetes, Terraform, Vault, Ansible, Jenkins, Git/Github Actions, Jira, Grafana, Prometheus, ELK Stack, Istio, Jaeger, Kafka, Helm, Kubernetes Operators

**Library/Frameworks:** Django, Flask, Express, Ruby on Rails, React, Solidjs, Scikit-learn, TensorFlow/TensorFlow Serving, PyTorch, OpenCV, Keras, Pandas, Numpy, Matplotlib, Spark

## EXPERIENCE

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### Site Reliability Engineer

Feb 2022 – Jan 2024

*Deloitte*

*Remote*

- Managed and maintained cloud infrastructure for various clients with Terraform
- Mitigated DB issue restoring from backups. Helped create multi-az RDS for product service
- Developed CI/CD pipelines in Jenkins to automate deployments to our CI/CD pipelines
- Added a DataDog layer to our AWS Lambda functions to capture data on usage and failure rates.
- Built a Datadog Service Map visualization in APM for performance metrics and dependencies
- Set up the Datadog service definitions in Terraform
- Implemented Istio service mesh to monitor and secure microservices
- Scraped service mesh to get metrics such as active connections and other data out of prometheus and custom metrics
- Created terraform alarms for DataDog for monitoring our SLAs
- Wrote scripts to automate database backups and restores.
- Created a new database for BI developers, so they could do analytics without affecting production database
- Anonymized the data and removed protected fields.

### Site Reliability Engineer

Jan 2021 – Jan 2022

*Blue Apron*

*Remote*

- Manage our Juniper network infrastructure with a Golang service to autoconfigure the ports
- Created On Premise Kubernetes clusters to move our Development Environment and save money
- Created new CI/CD pipeline to deploy our applications on the on premise clusters
- Helped write a golang service for Juniper Device management
- Migrated cloud development environment and helped setup skaffold for a better developer experience
- Participated in oncall disaster recovery.
- Helped create a disaster recovery plan.
- Helped created a chaos engineering plan, and tested the resiliency of our services

### Devops Engineer

May 2020 – Jan 2021

*Active International*

*Remote*

- Maintained all Kubernetes environments and infrastructure provisioning
- Created reports for cost management and cost predictions
- Optimized the mongodb queries (parallelized and custom indices) to speed up data fetching by 10x
- Migrated all legacy on prem sftp servers to azure and stored files in blob storage
- Created CI/CD pipelines for python web applications

## PROJECTS

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### Cpp Package Manager

*C++ Project*

Nov 2023 – Present

*C++, Lua, CMake*

- Developed a package manager for C++ projects to manage dependencies
- Implemented a Lua-based configuration system for easy project setup
- Created a CMake-based build system for compiling and linking the project

### Lsp Plugin

*Neovim*

Aug 2022 – Dec 2022

*Lua*

- Developed a plugin for Neovim to provide language server protocol support
- Created a simple interface for users to configure the servers in a simple way
- Implemented a Lua-based configuration system for easy project setup

## EDUCATION

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### Western Governor's University

*B.S. in Cloud Computing*

Salt Lake City, UT

*Dec 2020 – Sep 2024*

### Milton Hershey School

*H.S. Diploma*

Hershey, PA

*Sept 2012 – June 2016*

## CERTIFICATIONS

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- AWS Certified Solutions Architect
- AWS Certified Cloud Practitioner
- CompTIA Cloud+
- CompTIA Network+
- CompTIA Project+
- CompTIA Security+
- CompTIA A+