# SEAN LYONS

1144 Brookswood Ave ◇ Austin, TX 78721

(540) · 290 · 6284 ◇ lyonssp777@gmail.com

## EDUCATION

**Clarkson University**                                                                                       *Dec 2014*
B.S. in Computer Science & Mathematics
GPA: 3.85

## EXPERIENCE

**Favor**                                                                                        Nov 2022 - Present
*Tech Lead, Consumer Growth*                                                                          *Austin, TX*

· Improving content recommendation relevancy using Elasticsearch tagging and ML
· Leading strategic projects to implement vector search with Word2Vec and Elasticsearch
· Building dynamic pricing systems to enable marketplace balancing initiatives
· Collaborating with product leaders, stakeholders, and engineers to develop product roadmaps
· Continuously improving on-call operations to create reliable user experiences
· Broadly centering product development around a/b testing and continuous experimentation

**Amazon Web Services**                                                                        Jul 2021 - Nov 2022
*Senior Software Engineer, Managed Prometheus*                                                        *Austin, TX*

· Shipped code to globally available environments with a cellular architecture with AWS CDK
· Contributed to Cortex data plane scalability by improving time-series compaction speed with Golang
· Built Kubernetes controllers to speed up global data plane deployments using kubebuilder and envtest [1] [2]
· Refactored global event-driven metering pipelines to improve reliability with AWS CDK
· Operated in a robust on-call rotation centered on continuous improvement

**Symbiont**                                                                                     Sep 2018 - Jul 2021
*Senior Software Engineer*                                                                          *New York, NY*

· Led implementation of a proprietary distributed database and consensus protocol written in Golang
· Implemented a reactive development framework to enable simulation testing
· Reduced CircleCI pipeline runtime by 75% with improvements to testing practices
· Developed automated Jepsen chaos testing suite in Clojure to test consensus protocol guarantees

**iHeartRadio**                                                                                  Mar 2018 - Sep 2018
*Senior Site Reliability Engineer*                                                                  *New York, NY*

· Engineered migration to new observability platform based on Prometheus and Grafana
· Adopted Kubernetes-based deployment strategy for audio streaming infrastructure

**Commonbond**                                                                                   Mar 2016 - Mar 2018
*Lead Software Engineer*                                                                            *New York, NY*

· Engineered event-driven auth and product backends with Kafka and Spring Boot
· Implemented continuous integration and deployment pipelines

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[1] https://aws.amazon.com/blogs/opensource/speed-up-highly-available-deployments-on-kubernetes/
[2] https://github.com/aws/zone-aware-controllers-for-k8s