Linnea Karlsson Senior Infrastructure Engineer

San Francisco, CA · linnea.karlsson@gmail.com · +1 415-555-0127 · linkedin.com/in/linneakarlsson

PROFILE SUMMARY

- **Senior Infrastructure Engineer** with **7 years** running **Kubernetes and AWS infrastructure** at **Reddit**, after 3 years on bare-metal cache servers at **Fastly**, focused on cluster upgrades, networking and capacity.
- Works in **Kubernetes** on **AWS** (EC2, VPC), writes **Terraform** and Ansible, runs **Cilium** for cluster networking, tracks the fleet in **Prometheus** and Grafana, and writes tooling in Python and Go.
- Deep in **zero-downtime cluster upgrades**, **multi-region VPC design**, **capacity forecasting** and **zone-failure testing**, and writes a design doc with a rollback plan before every large change.
- Works with the **ads, feed and data platform teams** that deploy onto the clusters, agrees upgrade windows with them, and takes a shift on the **infrastructure on-call rotation**.
- Mentors **2 infrastructure engineers**, runs the **monthly capacity review** with finance, and wrote the cluster upgrade runbook that other teams now follow.

TECHNICAL SKILLS

Operating Systems & Virtualization:	Ubuntu, Amazon Linux 2023, systemd, bare metal (PXE, IPMI)
Cloud Platforms:	AWS (EC2, VPC, EBS, S3, IAM, Transit Gateway)
Infrastructure as Code:	Terraform, Atlantis, Ansible, Packer, Git
Containers & Kubernetes:	Kubernetes, Karpenter, Cilium, Helm, containerd, Docker
Networking & Load Balancing:	TCP/IP, BGP, DNS, VPC design, Envoy, AWS Network Load Balancer
Storage & Backup:	Amazon EBS, Amazon S3, NVMe, XFS, Velero
Monitoring & Scripting:	Prometheus, Grafana, Thanos, Python, Go, Bash

EDUCATION

The Linux Foundation — Certified Kubernetes Administrator (CKA) — Online · Mar 2025

KTH Royal Institute of Technology — M.Sc. in Computer Science and Engineering — Stockholm, Sweden · Aug 2014 to Jun 2019

WORK EXPERIENCE

Reddit — Senior Infrastructure Engineer — San Francisco, CA · Jul 2022 to Present

- Rebuilt the upgrade process for 38 self-managed **Kubernetes** clusters on AWS with blue-green node pools and a pre-upgrade test suite, taking them through 7 minor versions with **0** outages.
- Moved cluster and VPC definitions from hand-run scripts to **Terraform** modules with Atlantis plan reviews, cutting the time to stand up a new production cluster from 3 weeks to **4 days**.
- Switched cluster networking to **Cilium** eBPF routing and rebuilt the VPC layout across 3 AWS regions to keep traffic inside each zone, cutting cross-zone data transfer costs by **28%**.
- Built node capacity forecasts in **Prometheus** from 13 months of usage and moved stateless workloads onto **Karpenter** spot nodes, cutting EC2 spend per request by **22%**.
- Ran quarterly zone-failure game days with the ads and feed teams, draining a full availability zone in production, and cut recovery time for the ads serving stack from 25 to **6 minutes**.

Fastly — Infrastructure Engineer — San Francisco, CA · Sep 2019 to Jun 2022

- Brought up 320 new cache servers across 14 POPs during a hardware refresh, with PXE boot and firmware updates scripted in **Python**, cutting a POP turn-up from 5 days to **2 days**.
- Built one bare-metal Ubuntu image pipeline with **Packer** and **Ansible** for every cache host, replacing **6** hand-maintained image variants that had drifted apart.
- Tuned NVMe drive and XFS settings on cache hosts with the performance team, raising disk throughput per server by **18%** on the same hardware.