Cole Koester

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Summary: Full stack software engineer with experience in cloud architecture, operations, and implementation. Enjoys solving interesting problems at scale with interesting people.

EXPERIENCE

Lyft Inc. New York, NY

Software Engineer, Application Runtime - Networking November 2021 - Present

- **Runtime Discovery:** Worked across teams to implement GoLang backend and TypeScript/React UI for modifying at-runtime configurable network settings. Led to estimated savings of more than 1 million / year through faster sev mitigation and a 90% reduction in config deploy time.
- **Networking Management Plane:** Provisioned and currently own the network configuration management server (GoLang) holding API endpoints for controlling: circuit breakers, upstream hosts, and routes. Defined metrics, logging, and alerts. Reduced networking related toil by several factors.
- **Operations:** Maintain in-house control plane, service mesh, terraform DNS and load balancer modules (AWS), triage and resolve ops help tickets, and operate in on-call rotation with 3 other engineers in a highly reliable cloud network of 1500+ services and 100+ million / day inbound API requests.

iManage LLC Chicago, IL

Software Engineer - API November 2019 - August 2021

- **API Gateway:** Implemented new API gateway serving 30 million / day requests into iManage cloud. Migrated routing, header sanitization, in-cloud and out-cloud TLS management, and staging/production separation. Utilized new logging and filters to enhance operations reliability and observability.
- **External Authorization:** Built authorization sidecar for managing IP and subdomain whitelists in a multi-region environment. Worked on a 10 person team to meet requirements to onboard various large banks into the iManage cloud by providing whitelisting for their VPN subnets.
- **Ratelimit:** Deployed a new ratelimit service for the iManage cloud. Setup updating the ratelimit limits via environment variables configured per-service and endpoint, helping to improving network resilience and reliability.
- **Raml to OpenAPI:** Automated conversion from deprecated API specification language to OpenAPI, correctly migrating over 100000 lines of schema between formats. Implemented and maintained documentation UI used by iManage developers and clients.

EDUCATION

Tufts University Somerville, MA

Bachelor of Science in Mathematics, Minor in Computer Science May 2019

- **Scholarships:** QuestBridge College Match
- **Coursework:** Distributed Systems, Graph Theory, Machine Learning, Probabilistic Algorithms, Programming Languages, Mathematical Modeling, Computational Geometry

SKILLS

- **Languages:** Golang, Python, Bash, Protobuf, TypeScript, LaTex, C/C++, Java, Rust
- **Technologies:** K8s, AWS, Terraform, gRPC, Docker, Linux, React, GitHub, PromQL, Elasticsearch, UNIX, Grafana, Jenkins