# SEVAG HANSSIAN
email: sevagh@protonmail.com        github.com/sevagh

## SKILLS

Linux, Go, Docker, Python, Bash, Prometheus, Thanos, Docker, Ansible

## WORK

Senior devops engineer – NVIDIA                                      12/2021 – Present
   Linux build infrastructure for the RAPIDS ecosystem; rapids.ai

Staff site reliability engineer – Pandora/SiriusXM                   12/2017 – 11/2021
   – Architect & maintainer of a petabyte-scale self-service Prometheus + Thanos metrics platform
      ○ Supported horizontal scaling for large Consul catalogs, and large query optimizations
      ○ Added resilience with meta-monitoring, auto-healing, and circuit-breaking
      ○ Created federated metrics cluster for long-term retention and cross-datacenter querying
      ○ Developed first-class integrations with containerized microservice platform

   – Rebuilt PostgreSQL-based DCIM system to add login gating/auditing with LDAP and JWT
      ○ Replaced legacy Python 2 code with PostgREST, Go, and Python 3
      ○ Designed new server architecture for redundancy, lower latency, and cross-region resilience
      ○ Added provisioning and management of RHV/oVirt virtual machines alongside baremetal
      ○ Incorporated realtime block device inventory tracking with Prometheus

   – Wrote a real-time cross-region parallel streaming media file replicator in Go, dropping replication time from hours to seconds and replicating 1+ billion files from a stateless container deployment. Critical in making new music releases available to users seconds after launch

   – Created a Go CI/CD and general artifact distribution system using Docker, Nomad, and Ceph, with first-class support for mirroring and rebuilding external Go projects for upgrades and hotfixes

Site reliability engineer – Adgear/Samsung Ads                       09/2016 – 11/2017
   – Defined AWS deployment procedures with Terraform and Packer; developed tools for operating Vertica in AWS; wrote github.com/steamhaus/goat to manage EBS/EC2 attachments

   – Lead SRE on first production Rust deployment; created first Rust CI/CD pipeline; wrote a popular command-line protobuf parser github.com/sevagh/pq

Devops engineer – SAP Hybris                                         11/2015 – 09/2016
Python developer – Gameloft                                          08/2015 – 11/2015
Software developer – Savoir-faire Linux                              04/2014 – 07/2015
Junior computer engineer (intern) – Savoir-faire Linux              04/2013 – 04/2014

## SCHOOL

M.A., Music technology; GPA 4.0/4.0 – McGill University             2022 *(expected)*
   – Thesis: "Music demixing with the sliCQ transform," github.com/sevagh/xumx-sliCQ
   – Publication: "Music demixing with the sliCQ transform," MDX21 workshop, ISMIR 2021; pdf

B.Eng., Electrical Engineering; GPA 3.48/4.0 – McGill University                    2014