

# Ryan Roemmich

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Senior/lead software engineer focused on cloud and distributed systems.

## Work Experience

### Netflix

Senior Software Engineer • Aug 2020 – Present

- Data center platform and automation. Designed and implemented a control plane to manage physical infrastructure, reservations, and provisioning of compute hardware.

### DigitalOcean

Tech Lead / Senior Software Engineer • Nov 2015 – Aug 2020

- Responsible for the long-term storage of customer VM snapshot and backup data. Oversaw architecture improvements to grow the system to 200Gbps+ transfer rates.
- Designed Go/gRPC APIs for control-plane and integration of backend business systems. Deployed these systems on Kubernetes.
- Designed HAproxy load balancers for DigitalOcean Object Storage (Spaces). Deployed and maintained Ceph clusters serving block and object storage.

### SendGrid

Software Engineer - Mar 2015 - Nov 2015

- Maintained critical systems in the data path for systems pushing up to 1B emails per day.
- Implemented a distributed, multi-site rate limiting service to limit abusive traffic patterns.
- Point of contact for SRE teams assisting with configuration management and deployment strategies.

### Instrument

Technical Director / Lead Architect • Oct 2010 – Mar 2015

- Architected per-client infrastructure and software designs built on AWS.
- Built a distributed Magento cluster for Obey Clothing, growing to a \$20m/yr ecommerce business.
- Designed a performance-oriented web-based search for music licensing company, License Lab.

### Capgemini (via Sogeti)

Network Tools Developer • Sep 2009 – Oct 2010

- Integrated systems built on Django and DB2 to provide alert enrichment through IBM Tivoli Network Manager and the Remedy Action Request System.
- Built a productivity metrics system to provide engineer and org-level reporting for the group's ticketing systems using Python and matplotlib.

### Sprint

Network Tools Developer • Oct 2000 – Mar 2009

- Built inventory systems and ticketing software for an organization of >100 network engineers.
- Measured a 30% decrease in engineer work errors after standardizing work order procedures.
- Designed and implemented a single sign-on service built on OpenLDAP.

## **Education**

Kansas State University

Studies in Computer Science • Jan 1999 – Jun 2000