

OBJECTIVE

Traffic Routing Engineer seeking a position designing and supporting large scale infrastructure. I am looking for an opportunity to work closely with engineering teams improving service level performance and availability of large scale infrastructure across on-prem, hybrid cloud, and Edge environments.

EDUCATION/HONORS

INDIANA UNIVERSITY Bloomington, IN – 2002-2006 Graduated
B.S. Informatics

ACTIVITIES/PERSONAL

- Snow Skiing, Backpacking, Camping, Golf, Beach Days, Cooking, Kayaking, Fishing

WORK EXPERIENCE

Paypal Inc. – San Jose, CA 2015-present

- Joined in July 2015 during Ebay/Paypal split, part of Infrastructure Operations team. Managing Large Scale Infra including Load Balancers (F5+AVI), DNS (Bind), Puppet, Outbound Transaction Email 50M+/day (Momentum/Postfix/Qmail), LDAP (OUD), NTP, and a large fleet of legacy Web Servers hosting applications which had not yet been rolled into the Containerization Platform.
- Provided observability to the infrastructure using open source tooling, custom scripts and integration with Homegrown monitoring systems.
- 2016 - Wrote the book on Traffic Routing at Paypal. By modifying LB VIP config, GSLB (F5 GTM), and (split horizon) Bind DNS Zones via nsupdate, we can finally shift traffic between Datacenters and AZs reliably, and consistently contributing to much higher Availability for the site.
- Added additional Secondary DNS Provider hosting external DNS Zones resulting in Higher Availability. Mitigated the great DYN outage of 2016.
- Automated end to end AVI LB Provisioning of the fleet (100+ clusters) using Ansible.
- 2017 - Architected and provisioned Global Edge Infrastructure using AVI LB to compliment CDN (Akamai) – greatly reducing latency for end users of api.paypal.com and mobile app. Integrated GSLB for Edge using NS1. Hybrid Edge deployment; GCP and On-Prem POPs.
- 2019 - Selected to Public Cloud COE team. Responsible for building the security guard rails and automation ensuring successful Hybrid Cloud deployment into Google Cloud. Lead on CloudDNS and Load Balancing in GCP. Including designing end to end automation (TF), and observability for managing LB and CloudDNS.
- Current – Building Infrastructure to support Paypal Application stack into AWS by the end of 2022.

Global Research Network Operations Center @ IU - Bloomington, IN - 2006-2015

- Systems Admin, provided engineering and support for all systems supporting the Advanced Research and Education Networks managed by the GRNOC@IU; Internet2, NOAA R&E Backbone, National Lambda Rail, TransPAC2, I-light, and many other Campus, Muni, and Regional Optical Networks.
- Services included - AAA - LDAP/Kerb/Radius/Tacacs. Asset and CMDB w/ RANCID integration. Syslog. Mail. Jabber. Content Mgmt System. SNMP Metrics and Telemetry. Puppet. NTP. DNS.
- Provided observability tooling for all of the networks which were then provided back to the customers
- Managed DNS for the state of Indiana