

Daniel Van Allen

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Skills

Programming languages: Python, Golang, C++, Javascript

Frameworks and technologies: Ruby on Rails, Django, Bootstrap, NextJS, TailwindCSS

Operating systems: RedHat, CentOS, Ubuntu, Debian, Arch Linux, Gentoo, Cisco IOS XR

Networking: DHCP, DNS, HTTP, BGP, IRR, RPKI, Google Cloud Interconnect

Other skills: Git, Docker, GitHub Actions, AWS: EC2, ECS, ECR, ALB

Experience

Infrastructure Software Engineer, Google Distributed Cloud Edge (GDCE) 2021-2023

- Bare Metal Lead - designed solutions and mentored junior engineers on BIOS, BMC, PXE, SR-IOV.
- Contributed to a Golang service which applies Kubernetes CRD changes to GDCE bare metal servers.
- Contributed to open source projects including PeeringDB (Django) and ipmitool (C).

Network Engineer, Google Edge Solutions 2020-2021

- Deployed more than 1 Tbps of network ingest capacity at edge locations to support Waymo.
- Processed and displayed BGP RPKI and IRR validation details for every IP prefix advertised to Google.

Linux Systems Development Engineer, Google Global Cache 2018-2020

- Optimized BGP routing to partner ISP networks for YouTube video serving via Google Global Cache.
- Diagnosed HDD, RAID, NIC, BMC, RAM, CPU, PSU, etc. issues on commodity servers and switches.

Systems Analyst, Palantir Technologies Business Development Operations 2015-2018

- Developed a lightweight laptop form-factor of the Palantir Foundry stack for use in the field.
- Contributed to an internal tool for instantly launching product stacks.
- Created and contributed to internal Ruby on Rails tools.

Systems Analyst Intern, Palantir Technologies Mission Operations 2014

- Created and deployed custom Linux images with Palantir platforms for training and demonstrations.

Customer Advocacy Lab Operations Co-op, Cisco Systems 2012-2013

- Connected routers, switches, and physical/virtual servers to simulate customer networks.
- Diagnosed connectivity issues at layers 1-3 of the OSI model.
- CCNA Certified.

Education

B.S. Computer Science *Cum Laude*

University of Texas at Dallas, 2014

President, Linux Users Group at UT Dallas

Awards and Recognition

- Google Tech Impact Award, BGP Routing Security, 2022
 - <https://www.wired.com/story/bgp-routing-manrs-google-fix>
 - <https://dl.acm.org/doi/abs/10.1145/3469287>
- Awarded eight spot bonuses and twenty peer bonuses for exceptional work at Google.