

PUNEET PRUTHI

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10+ years of experience, seeking opportunities in Infrastructure, Distributed Systems and Virtualization

SKILLS

LANGUAGES

Python • C/C++ • Go • Bash • Java • Perl

PLATFORMS

AWS • Kubernetes • Terraform • Docker
SaltStack • Packer • Systemd

TECHNOLOGIES

Cloud Orchestration • Virtual Machine
UNIX Systems • Kernel Development
Networking • Hypervisor • Storage

TOOLS

Github • PagerDuty • Jenkins • Kibana
Wavefront • Grafana • CircleCI • Statsd
Prometheus • Fluentbit

OPERATING SYSTEMS

Linux • Solaris • Windows • VxWorks

CONFERENCES

Presented my work on automatic K8s Cluster Upgrade tooling – **k8srotator** at [KubeCon2019, SanDiego](#) to open source my work & attract talent for hiring

PUBLICATIONS

- [JNCA, Elsevier Nov. 2010](#): Using **Bee Algorithm** in mobile Ad Hoc Networks
- IEEE, *AICCSA, Morocco, May 2009*: [P2P File Share using Bee Algorithm](#)

EDUCATION

CARNEGIE MELLON UNIVERSITY, INI MS, Information Networking
Pittsburgh, PA **May 2013**

UNIVERSITY OF DELHI, NSIT BE (BS), Computer Engineering
Delhi, India **May 2008**

INTERESTS

Hiking • Biking • Music • Cooking
Play Musical Instruments • Reading

WORK EXPERIENCE

LYFT INC.

San Francisco, California

Senior Software Engineer

Nov 2017 - Present

- **Team Lead** for Lyft's Orchestration Team to manage **Infrastructure as Code**
 - **Bootstrapped** a lean **team** to fill gap in ownership & improve management and tracking of cloud resources and reduce Infrastructure Incidents at Lyft
 - Built and drove **team vision** & multi-year **roadmaps** to design our platform and **delegated** team effectively to deliver a production grade platform
 - Wrote **tech specs** for managing platform infrastructure and service registry
 - Implemented **operational** and **monitoring** infrastructure, resource configs
 - Led **cross team collaboration** and alignment with various **stakeholders** and **customer teams** in building the platform using **Terraform**
 - Platform provides **High Availability** and Horizontal Scaling
 - Platform currently **manages** cloud resources for over **1000 services** (Tier 0 - Tier 3) and reduced **revenue impacting incidents to 0**.
- Built core components of custom **Kubernetes** stack on **AWS** to containerize Lyft services that **reduced hosting costs** by over **30%** & **CPU utilization** by **20%**
- Designed and implemented **operational tooling** for managing our Kubernetes clusters like [k8srotator](#) (automated Kubernetes cluster upgrading tool), **sidecar container injector**, **secrets (confidant) injector**
- Led multiple projects to decompose complex monolith Infrastructure systems - envoy, heka, statsd, events etc. that reduced deploy incidents by 80%
- Mentored multiple junior & senior engineers with technical and career goals

ORACLE AMERICA INC.

Santa Clara, California

Senior Software Engineer

June 2013 – Nov 2017

Team Lead for Docker Solaris Porting Project mentoring 5 engineers

- Planning long & short term goals for teamwork
- Open source contributions to **Docker/Moby Github repositories**
 - Individual contributions to **Libnetwork** & **Swarmkit** Github repository
 - Team contribution to **Docker Engine** & **Container Runtime (OCI)**
 - Represented team at Dockercon, Openstack Summit for hiring
 - Added support for **64-bit** & **multithread** processes for linux on Solaris
- Re-designed resource capping daemon (rcapd) for Native Zones (VMs)
 - Improved **memory resource utilization** by 40% for Native Zones (VMs)
 - Parallelized zone processing along with use of mark-sweep algorithm
- Implemented **cold migration** and **renaming** for Solaris VMs

HUGHES SYSTIQUE CORPORATION

Gurgaon, India

Senior Software Engineer

Sept 2008 - July 2011

Team Lead for a **4 member team** for Jupiter Project (deployed in Brazil)
Ported utilities like IP Gateway, CGI Utility from VxWorks to Linux

- Implemented **IPv6 stack** for service provisioning over HN7700 Router Boxes
- Implemented **RIP, RIPng, ICMPv6, L2TPv3** protocol RFCs for Hughes Routers
- Developed Radius Client, Web Config Utility and LANdriver **Kernel Modules**