

TARUN VARSHNEY

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# SUMMARY

Software engineer with 3+ years experience in designing and providing cloud-native platform. Seeking to leverage experience implementing REST API based services and solid knowledge of cloud computing.

# EXPERIENCE

## Software Engineer

Company A March 2020 - Current, New York City, NY

- Implemented jupyter notebook provisioning service with Django, Go, and Kubernetes.
- Designed and implemented Apache Hadoop, Apache Spark, Elasticsearch cluster provisioning service with Django, Go, Kubernetes, and Helm to process log data from 44m+ MAU.
- Designed and implemented image prepulling service for 200+ nodes of kubernetes cluster. Startup times of instances reduced from 20+ minutes to less than 10 seconds.
- Participated in React based front end development.

## DevOps Engineer

Company B January 2020 - March 2020, New York City, NY

- Managed Kubernetes clusters(500+ nodes, 1m MAU) with Istio service mesh.
- Delivered Kubernetes-based development environment with AWS EC2 at 30+ instances.
- Implemented a continuous delivery system for microservices and A/B test with Kubernetes, Istio, Python Django, and GoCD.

## Software Engineer

Company C December 2016 - January 2020, New York City, NY

- Designed Cloud network architecture with Software Defined Networking targeted 100+ nodes of datacenter.
- Designed and implemented Kubernetes CNI plugin with Go to provide additional network features including public IP provisioning, multi tenancy.
- Implemented underlay Software Defined Network controller including Proxy ARP, Routing, TLS, ACL functions with C, and OpenFlow protocol.
- Implemented overlay Software Defined Network controller with VXLAN, OpenFlow protocol, and Go.
- Developed patented consensus algorithm invented for High Availability of the controllers.
- Participated in Elasticsearch-based log aggregation system development.

## Software Engineer Intern

Company D July 2014 - August 2014, New York City, NY• Implemented compute node clustering service with Python-based on Openstack Nova at 100+ nodes.

## Software Engineer Intern

Company E January 2014 - February 2014, New York City, NY

- Implemented 1m+ downloaded free internet call application with Android.
- Implemented Flask based back-end admin server.

# EDUCATION

**Master of Engineering, Computer Science**

Massachusetts Institute of Technology (MIT) • 2017

**Bachelor of Engineering, Computer Science**

Massachusetts Institute of Technology (MIT) • 2015

**SKILLS**

Language: Python, Go, C, JavaScript

Cloud system: Kubernetes, Helm, Docker, Istio

Databases: Redis, MySQL, ElasticSearch

Framework: Django, Echo, React, Apache Spark, Apache Hadoop