


# VIDUSHI SHARMA

☎ 716-994-7386 ✉ [vidushisharma1707@gmail.com](mailto:vidushisharma1707@gmail.com)  [linkedin.com/in/vidushisharma1707](https://www.linkedin.com/in/vidushisharma1707) [github.com/vidushis17](https://github.com/vidushis17)

## Education

### State University of New York at Buffalo

Aug 2021 – Dec 2022

*Master's in Computer and Information Sciences*

NY, USA

**Coursework:** Operating Systems, Distributed Systems, Machine Learning, Analysis of Algorithms

### Thapar University

Aug 2014 – Jun 2018

*Bachelor of Engineering in Computer Science (CGPA 9.03/10)*

Patiala, India

**Coursework:** Data Structures and Algorithms, Operating Systems, Databases, OOPS, Cloud Computing

## Technical Skills

**Languages:** Java, C++, C, Python, Typescript, Groovy, SQL

**Databases:** Postgres, MongoDB, SQLite, MySQL, AWS Aurora

**Tools Frameworks:** Kubernetes, Helm, Docker, Prometheus, Grafana, Kafka, AWS Cloudwatch, FluentD, VMware Wavefront, Jenkins, JIRA, Git, Angular, SpringBoot, Android, Shell script, Mockito, JUnit

## Work Experience

### VMware

Jul 2018 – August 2021

*Member of Technical Staff 2*

Bengaluru, India

- Conceptualised and Developed a Spring Based SaaS Deployment Controller Service for seamless deployments of more than 90+ SaaS Services in different Kubernetes Cluster based environments. The service is being used extensively across different cross geo teams and plays a crucial role in managing deployments in case of Kubernetes upgrades by 350+ engineers.
- Solely Lead the effort to encourage Code Quality and Developed a Spring Service for scrapping different Test Coverage reports such as Jacoco, Sonar and Cobertura and converting them into Prometheus Time Series Metrics which can be used for visualization of the Code Quality of the Products in Wavefront or Data Dog.
- Integrated Log Scrapping from Kubernetes Clusters for all the VMware Cloud Management Services(90+) using FluentD and sending them to VMware Log Insight Cloud using Cloud Proxies and Terraform. It drastically increased the log retrieval rate and also helped increase developer productivity.
- Hands on Experience of Writing Groovy DSLs to create CICD Jenkins Jobs.
- Expertise in creating Helm Charts for deployments of Docker Based Containers in Kubernetes Clusters running on AWS.
- Expertise as a Site Reliability Engineer. Set up Monitoring Dashboards and Alerts for Kubernetes Clusters and Application Metrics using Telegraf and Prometheus based Metrics as well as AWS Cloudwatch Metrics in Wavefront and Grafana. Alerts are setup using Webhooks for Slack and Pagerduty to manage service SLIs.

### Practo Technologies

Jan 2018 – June 2018

*Software Engineering Intern*

Bengaluru, India

- Part of the Core Search Team which worked on adding new features to Lucene based Search and provide better suggestions to users in autocomplete.
- Improved the ranking algorithm of Practo to rank doctors by building new models. CTR Data of doctors used to rank them and provide much more relevant suggestions which improved the conversion rates.

## Academic Projects

### Pintos Operating System Implementation [Github](#) | (C, Unix)

October 2021

- Implemented kernel threads, loading and running of user programs using sys calls, complete file system and virtual memory from scratch. The project required extensive knowledge of multithreading and Operating system concepts of semaphores, job scheduling algorithms.

### Distributed Publish-Subscribe System for Traveler Information [Github](#)

- Performed data wrangling to pull live country information from an external API and publish it to the Kafka cluster (Publishers). Used Kafka Producer and Consumer Client in the Spring Boot application to talk to the Kafka Cluster.
- Coded and containerized a Zookeeper, 3 Kafka Broker nodes and 10+ Spring Boot services to simulate multiple producers and consumers.
- Used docker-compose and docker networking to enable communication between these swarm services.

## VOLUNTEER EXPERIENCE

### VMware Taara Inclusion Project, Women Who Code

Aug 2018 – Present

*Mentor*

- Actively engaged in bringing women back to the technical industry after a career break by regularly conducting technical workshops and individual peer mentoring.