SIDDHANT DESHMUKH

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"Passion for creating products and platforms from scratch and scaling them to handle extremely high volumes of data"

Education

Master of Science in Computer Science   **Aug 2015-Dec 2016**
University of Florida, Gainesville, Florida, USA   **4.0/4.0 GPA**

Experience

VMWARE - Senior Member of Technical Staff - Platform Team - Palo Alto, California   **Aug 2019-Present**
- Owned services that ingest **10 million eps** and distribute **25 million eps** spanning multiple continents
- Owned and maintained **30+ services** as part of the Uhana Data ingestion and distribution engine which is around **50% of the Uhana platform**. Currently **mentoring 5 engineers** working on the platform
- Designed and implemented the TCP Distributor services spanning multiple continents in production Successfully **filed for a patent** as the primary owner. Major reason for biggest **customer contract renewal**
- Currently creating the CRIC platform from scratch and involved in multiple **massive customer trials**
- Instrumental in moving the Uhana platform from Mesos/Marathon to **Kubernetes/Helm**
- **Setup logging framework** using ELK and Filebeat for the Uhana platform spanning multiple continents
- Designed and implemented **zero downtime upgrade** and **high availability** for Uhana ingestion platform
- Key work on build/deployment/devops and resolved multiple customer production issues

UHANA (Acquired by VMWARE) - Senior Software Engineer - Palo Alto, California   **Aug 2019**
INFORMATICA - Software Engineer - Cloud Platform Team - Redwood City, California   **Feb 2017-Jul 2019**
- Enhanced the Informatica Cloud Platform by creating and enhancing micro-services
- Owner of V3API (Informatica Cloud latest public APIs) and PC2Cloud (migrate customers to cloud)

INFORMATICA - Software Development Intern - Cloud Platform Team - Redwood City, California   **May-Aug 2016**
- Enhanced Informatica Cloud API by adding features such as partial update of resources (Java, MySQL)

Skills

Programming - Java, **Python**, GoLang, JavaScript, C++, Scala, R, NodeJS, Angular, Express, Ruby, HTML, CSS
Database - Cassandra, **Oracle SQL**, **MySQL**, MongoDB, Postgresql
Tools & Frameworks – **Kubernetes**, **Docker**, **Bazel**, **Spring**, **REST APIs**, **Git**, **Kafka**, Chef, Perforce, HAProxy, Jenkins, Marathon, Mesos, Network Security, Google Protobuf, Prometheus, Grafana, Flink

Projects

UHANA PLATFORM - AI-based analytics platform to improve customer experience on 4g & 5g networks   **Aug 2019-Present**
- Ingest data at 10 million eps and distribute at 25 million eps (Java, Python, Kafka, Cassandra)

CRIC PLATFORM - Data pipeline for network operations data processing, storage and distribution   **Aug 2019-Present**
- Currently creating the CRIC platform from scratch (Java, GoLang, Kafka, Cassandra)

TCP DISTRIBUTOR - Critical services to distribute large scale network telemetry data to multiple clients   **Aug 2019-Present**
- Filter, Process and distribute data from cell towers to multiple clients in real-time at 25 million eps

ELK LOGGING FRAMEWORK – Setup logging framework for Uhana Platform on multiple continents   **Aug 2019-Present**
- Used Elasticsearch, Filebeat, Logstash and Kibana to setup logging spanning multiple continents

PC2CLOUD SERVICE – Critical service to convert customer on-premise metadata to cloud   **Feb 2017-Aug 2019**
- As service owner, handled all aspects such as production, customer and deployment related issues

V3-API SERVICE - Informatica public APIs accessible to customers   **Feb 2017-Present**
- As service owner, played a part in designing and developing latest Informatica public APIs (Java)

AKAMAI CDN WITH FALLBACK - Integrated the Informatica Cloud UI with Akamai CDN   **Jan-May 2018**
- Enhanced Informatica UI to use CDN for static resources and fallback to local on failure (JavaScript)

Research

MOBILE MONEY MONITORING MACHINE - Research Project in Network Security Lab   **Aug-Dec 2016**
- Automate security analysis for mobile money applications (Android, Python, MongoDB)

RESEARCH PAPER - Efficient and Secure Template Blinding for Biometric Authentication   **Jan-Aug 2016**
- Developed blinding protocols that provide template protection to database. IEEE CNS Research Paper