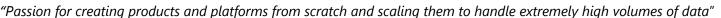
SIDDHANT DESHMUKH

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Experience

AMAZON WEB SERVICES (AWS) - Senior Software Engineer (L6) - OpenSearch - Palo Alto, California

Sept 2022-Present

- Led global innovation of AWS OpenSearch, a Tier 1 mission-critical service generating massive undisclosed revenue
- Directed Query Insights, a flagship platform for deep analysis and optimization of search query performance
- Build Intelligent Insights, an AI driven RCA tool using AWS Bedrock and CloudWatch
- Engineered scalable query pipelines with AWS Glue and Spark for fleet-wide trend analysis and anomaly detection
- Delivered Hard Cancellation to eliminate resource use from cancelled gueries via advanced pattern detection
- Developed Cluster Insights, providing predictive cluster performance, tuning and failure alerts
- Presented OpenTelemetry and observability strategies at OpenSearchCon Berlin, shaping industry best practices
- Delivered operations support and tooling to XXL customers, safeguarding massive revenue

VMWARE - Senior Member of Technical Staff - Platform Team - Palo Alto, California

Aug 2019-Sept 2022

- Owned 30+ services in the <u>Uhana</u> platform, handling 10M+ EPS ingest and 25M+ EPS distribution globally
- Designed the <u>patented TCP Distributor</u> and built the <u>CRIC platform</u> for large-scale customer trials
- Migrated Uhana from Mesas/Marathon to Kubernetes/Helm to streamline deployments
- Built ELK logging across regions and enabled zero-downtime upgrades with high availability

UHANA (Acquired by VMWARE) - Senior Software Engineer - Palo Alto, California INFORMATICA - Software Engineer - Cloud Platform Team - Redwood City, California

Aug 2019

Feb 2017-Jul 2019

- Enhanced the Informatica Cloud Platform, improving core services used by all cloud customers
- Owner of V3API (nest-gen <u>public APIs</u>), enabling seamless customer migration to cloud

INFORMATICA - Software Development Intern - Cloud Platform Team - Redwood City, California

May-Aug 2016

Skills

Programming: Java, Python, Go, JavaScript (Node.js, Angular, Express), C++, Scala, R, Ruby, Rust

Databases: Cassandra, Oracle SQL, MySQL, Elasticsearch, MongoDB, PostreSQL, Redis, Opensearch, DynamoDB

Cloud & DevOps: AWS (Multiple services), Kubernetes, Docker, Jenkins, Bazel, Marathon, Mesos, Prometheus, HAProxy

Big Data & Streaming: Spark, Hadoop (HDFS, Hive), Flink, Kafka, Storm

AI/LLM Skills: AWS AI Services (Bedrock, SageMaker), LLMs (Claude, OpenAI GPT)

Projects

QUERY INSIGHTS - Flagship observability platform for search query analytics

Sept 2022-Present

- Architected backend and frontend features for Top Queries, Query Grouping, Query Metrics
- Integrated OpenTelemetry to enable end-to-end visibility into query performance at a global scale

INTELLIGENT INSIGHTS – Al driven root cause analysis tool.

Sept 2022-Present

- Built Al-powered RCA system using CloudWatch, S3 and OpenSearch for automated issue detection
- Used Bedrock (Claude) for natural language summaries and enabled AI Ops integration with chatbot

UHANA PLATFORM - Al-based analytics platform to improve customer experience on 4g & 5g networks

Aug 2019-Sept 2022

Ingest data at 10 million eps and distribute at 25 million eps (Java, Python, Kafka, Cassandra)

TCP DISTRIBUTOR - Critical services to distribute large scale network telemetry data to multiple clients

Aug 2019-Sept 2022

• 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-Sept 2022

• Used Elasticsearch, Filebeat, Logstash and Kibana to setup logging spanning multiple continents

Research & Patents

PATENT - Designed the patented TCP Distributor for Uhana, VMware

Aug 2019-Sept 2022

MOBILE MONEY MONITORING MACHINE - Research Project in Network Security Lab

Aug-Dec 2016

RESEARCH PAPER - Efficient and Secure Template Blinding for Biometrics <u>IEEE CNS Research Paper</u>

Jan-Aug 2016

Education

Master of Science in Computer Science

Aug 2015-Dec 2016

University of Florida, Gainesville, Florida, USA

4.0/4.0 GPA