

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 queries 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 [Uhana](#) platform, handling **10M+ EPS** ingest and **25M+ EPS** distribution globally
- Designed the [patented TCP Distributor](#) and built the [CRIC platform](#) 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 Aug 2019

INFORMATICA - Software Engineer - Cloud Platform Team - Redwood City, California Feb 2017-Jul 2019

- Enhanced the [Informatica Cloud Platform](#), improving core services used by all cloud customers
- Owner of V3API (nest-gen [public APIs](#)), 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, PostgreSQL, 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 – AI driven root cause analysis tool. Sept 2022-Present

- Built AI-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 - AI-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 [IEEE CNS Research Paper](#) 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