

## Education

**Master of Science in Computer Science**

**Aug 2015-Dec 2016**

University of Florida, Gainesville, Florida, USA

**4.0/4.0 GPA**

## Experience

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

**Sept 2022-Present**

- Maintaining and enhancing AWS OpenSearch (Elasticsearch) Service with global scale
- Leading multi-team observability project **Query Insights** to improve search visibility and performance
- Lead the In-place update effort to update customer domains without B/G upgrade and deployed globally

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

**Aug 2019-Sept 2022**

- 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
- Designed and implemented the TCP Distributor services spanning multiple continents. [Patent](#)
- Created 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

**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, Rust**

**Database - Cassandra, Oracle SQL, MySQL, Elasticsearch, MongoDB, Postgresql, Redis, Opensearch, DynamoDB**

**Tools & Frameworks – Kubernetes, Docker, Bazel, Spring, REST APIs, Git, Kafka, Aws, Flink, HDFS, Hadoop, Spark, Storm, Hive, Jenkins, Marathon, Mesos, Network Security, Protobuf, Prometheus, Grafana, HAProxy**

## 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](#)