

# ANIL ALFONS K

SOFTWARE ENGINEER (5+ Years)

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## CAREER OBJECTIVE

A curious learner and creative team player looking for a Software Engineer opportunity, where I can utilize my experience in coding and software development to innovate and solve challenging problems. Expertise in Data Engineering (using Flink & Kafka) and Spring based application as well as extensive knowledge of platform as a service design and data structures.

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## SKILLS

### Languages & Frameworks

Java, Spring Boot, Spring Kafka, Spring JDBC, Spring Cloud Stream, Spring Reactive, Junit, Camunda.

### Data Platforms & MQ

Apache Flink, Apache Kafka, Kafka Streams, Kafka Connect.

### Build & Deployment

Maven, Gradle, Kubernetes, Helm Charts, Spinnaker, Kiali, Docker.

### Cloud & Monitoring

AWS, S3, Elastic Cache, ECR, ELK Logging Stack, Grafana, Prometheus.

### Databases & Cache

Postgre SQL, MongoDB, Elastic Search, Redis Cache.

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## WORK EXPERIENCE

### CLOUD DATA ENGINEER / CISCO - WEBEX

Jan 2019 – Present / Bengaluru

Part of the team building a low latency real-time stream processing platform that can be plugged into any Contact Center provider helping them to monitor the agent/call activities in the system. Also, the same data is being used for real-time and historical reporting and analytical workloads.

- Designed and Executed along with a team of 5, Data pipeline that receive data from the source which are then enhanced using historical data and sink to Kafka and other persistence stores like Mongo.
- Worked using JAVA on Apache FLINK, REDIS, Apache KAFKA, and KUBERNETES to develop the data pipeline.
- Designed and Developed a real-time alerting system that proactively generates real-time alerts with <5ms latency for each tenant based on the different editable criteria set by the supervisor.
- Wrote an asynchronous API layer that reads data from MongoDB and aggregate it based on the request using Spring Reactive, Spring boot and Spring Mongo.
- Worked with SRE to fully automate the development to delivery using HELM Charts, JENKINS and KUBERNETES. All of both Flink and Spring apps were deployed as K8S workloads and was monitored using ELK Logging stack, Grafana and Prometheus and PD alerts.
- Re-Developed a real-time monitoring system that helps the supervisor monitor calls and coach/advice agent if needed using Kafka, Spring and MongoDB. This reduced latency form 10s to 1s for user.
- Developed Kafka Sink that backups the Kafka Messages to Amazon S3 using Kafka Connect API and S3 Sink Connector. Data was custom partitioned based on the tenant Id.
- Migrated existing tenants and users to new platform developed with 0 down time using CAMUNDA workflow manager.
- Involved in prototyping, and analyzing different data platforms like Kafka Streams, Spark and Apache Flink. Later Flink was chosen to develop our Data Pipelines.
- Experience in designing for operational excellence, i.e. test strategies for systems, verifying the scalability of systems and real-time tracking of operational performance.

## SOFTWARE ENGINEER / CHROMA - TCS

Oct 2015 – Dec 2018 / Bengaluru

CHROMA™ is TCS's cloud-based talent management solution that handles all employee lifecycle functions.

- Was part of the team developing applicant facing portal, for CHROMA using Spring Boot, Spring MVC, Spring DATA and SQL. Also developed API to be consumed by tenants and 3<sup>rd</sup> Party auth by tenants.
- Was part of the team that developed data pipeline to normalize and join applicant data from multiple sources like PostgreSQL, Resume Parser API and sink into MongoDB. This information was then used by the recruiter to find the right candidate.
- Was involved in creating bulk upload APIs to migrate a new tenant data to the platform. This resulted in faster and easier onboarding of new customers.
- Was involved in developing services to integrate with Third Party providers like LinkedIn, Naukri, Indeed where the job posting published in the system will be posted in those sites. Service was developed using Spring Boot.
- Gained experience in writing test cases and following a test-driven development using Junit.
- Gained my initial experience in understanding and using version control systems like Git, and quality check platforms like Sonar.
- Experience in Mentoring Junior Developers and extensive code review.

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## EDUCATION

### MAR ATHANASIOS COLLEGE OF ENGINEERING AND TECHNOLOGY (2011 – 2015)

Bachelor's in technology – Computer Science and Engineering

CGPA: 7.3/10 – First Class.

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## PERSONAL PROJECTS

### SENTIMENT ANALYSIS OF TWITTER STREAM USING APACHE FLINK

A project to stream twitter statuses containing certain keywords provided and find out the sentiment of each of those tweets. If a sentiment goes above a defined threshold raise an alert. Pipeline is developed using Apache Flink and Flink Twitter Streaming connector. Sentiment is analyzed using Stanford CoreNLP for JAVA. Alerts are monitored using Flink Complex Event Patterns. [link](#)

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## ACHIEVEMENTS

- Connected Recognition – For Delivering TAHOE – Cisco WEBEX
  - Connected Recognition – Performance Optimization – Cisco WEBEX
  - Best Performer – Recruitment Module Tata Consultancy Service - Chroma HCM
  - Best Placement Coordinator – MA College of Engineering - Organizing 2014- 2015 placement season.
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