

# Athavan Kanapuli

Senior Software Engineer - Asynchronous Communications

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## Profile

Forward-thinking Technical fellow with 8 years of experience in Reliability engineering, Infra tooling, Kubernetes and Backend systems. Currently leading the team for Asynchronous cloud communications at Germany's one of most successful startup and working across the technologies from kafka to Rabbitmq, platform tools to backend services, APIs and databases. [Open source enthusiast](#), Linuxian, Kafka mechanic and [Lazy technical blogger](#).

## Experience

### Hellofresh SE, Berlin

*Oct 2020 – Present*

#### Senior Software Engineer

- Leading the implementation of a comprehensive initiative across the company to rebrand Kafka topics for enhanced governance, resulting in a notable 75% improvement in data flow visibility.
- Managed the creation of a central schema registry service serving as a governance entity for asynchronous communication schemas.
- Responsible for maintaining Go-based Kafka and RabbitMQ libraries.
- Established consensus within the engineering organisation on high-level technical designs for data streams.
- Re-architected a backend service as a side project which improved the customer conversions by 9% and reduced the number of incidents.
- Extracted PHP monoliths into microservices using Change data capture pattern.
- Acted as Hiring manager to bring top-tier software engineer talent into the business.
- Introduced Apache MirrorMaker2 to the organisation and developed custom tooling around it to rename Kafka topics according to Hellofresh needs.
- Created a release health dashboard, which automatically ran SQL queries for various key metrics, by app version, to rapidly alert us to issues and catching production incidents.
- Drafted an internal Request for Comments (RFC) proposing the implementation of Personally Identifiable Information (PII) Tagging within data schemas utilized for asynchronous communications.

### Exotel Techcom Pvt Ltd, Bangalore

*Feb 2018 – Sep 2020*

#### Site Reliability & Software Engineer - Platform

- Orchestrated the introduction and architecture of Kubernetes, facilitating the smooth migration of EC2-based cloud workloads to Kubernetes pods, thereby reducing AWS costs by 40%.
- Spearheaded the construction of a robust CI/CD pipeline utilizing Jenkins and Argo, aligning seamlessly with the Kubernetes paradigm which resulted in faster shipping of changes.
- Assumed a pivotal role in maintaining and enhancing cloud security measures. Awarded by the CTO as Security Ninja at Exotel.
- Engineered a metrics pipeline to systematically collect data from cloud workloads, furnishing actionable insights into the overall health of Exotel services.
- Hired and mentored engineering talent.

- Implemented automated telephone server installations through Ansible, significantly slashing the installation timeframe from one week to just a few hours.
- Developed a microservice designed to automatically recover critical service failures in a pre-Kubernetes environment.

## **Hirecraft Softwares Private Ltd, Bangalore**

*Feb 2015 – Feb 2018*

### **Software Engineer - Backend**

- Implemented a side project in Golang that enables the seamless Excel export of millions of business records with a single API click. This feature eventually became a highly sought-after addition to the Hirecraft web application.
- Created a backend web API server with a well-structured n-tier architecture, utilizing .NET Web APIs, RabbitMQ, Redis, Elasticsearch and MySQL.

## **Universal Telecom Private Limited, Chennai**

*Jan 2014 – Dec 2014*

### **Field Engineer**

- Employed in the telecommunications tower sector to implement Vodafone's 3G technology, involving the installation of equipment and the commissioning of devices with assigned IP addresses.

## **Education**

**Sri Sairam Engineering College**    *Bachelor of Engineering - Electronics & Communication — GPA (7.6) — 2013*

## **Skills**

- |          |            |              |
|----------|------------|--------------|
| • Go     | • Kafka    | • Git        |
| • Kotlin | • Rabbitmq | • Kubernetes |

## **Quick Profile**



(a) Github