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Haarlem, The Netherlands

Education

2009 - 2012 University of Groningen
Master of Business Administration

2008 - 2009 University of Groningen
Pre-Msc Business Administration

2004 - 2008 Hanze Hogeschool
Bachelor of ICT

Skills

- Kotlin (5+ years)
- Java (5+ years)
- Spring Boot
- Spring GraphQL
- Postgres
- Apache Kafka
- Apache Flink
- Elasticsearch
- Prometheus
- Docker
- Kubernetes
- Terraform
- Cloud infrastructure (AWS, DigitalOcean)
- Typescript
- Vue 3
- Vuetify
- GraphQL & REST API design
- Message driven architectures
- Continuous integration & deployment (Gitlab, Github)

Languages

- Dutch (native)
- English (professional)

Frank Koornstra

Freelance senior Kotlin & Java software engineer

Experienced in setting up new services or doing major refactoring of existing services. Someone who takes initiative and responsibility, likes complexity, and keeps the overview.

Looking for **freelance contract**, 24 - 32 hours per week, remote/hybrid (max 2 days in-office)

Work experience

- Co-founder **Baseboard**
September 2023 - current
Baseboard is an integrated production documentation platform where machine manufacturers design their assembly process.
I built the platform from the ground up, including cloud infrastructure (*Terraform, Kubernetes, Docker, Prometheus*), backend (*Kotlin, Spring Boot, Spring GraphQL, Postgres*), and frontend (*Vue 3, Vuetify*).
- Senior Kotlin backend engineer **WeCity**
November 2022 - June 2024 (1y8m), freelance
WeCity offers a smart city platform to make cities more sustainable, liveable, inclusive and flexible.
Due to architectural choices in the past, the pace of development had come to a crawl. I was asked to solve this issue so I designed a new architecture and implemented it together with the team.
We set up a new cloud infrastructure (*Terraform, Kubernetes, Docker*), implemented new services (*Kotlin, Spring Boot, Spring GraphQL, Postgres, Kafka*) and made sure these services were actively monitored (*Prometheus, Sentry*).
- Senior Java backend engineer **Gorgias**
April 2022 - March 2023 (1y), freelance
Gorgias runs one of the largest e-commerce help desk software platforms, with billions of tickets residing in dozens of data centers around the world.
Finding one of those tickets was hard and slow tho, since search relied on simple Postgres queries. To improve this, I was hired to set up a new search engine and the data pipeline feeding it.
In collaboration with the Product Owner, I determined the requirements. I configured and fine tuned *Elasticsearch* and, with the team, created an *Apache Flink* data pipeline to process the billions of tickets. Search latency went down from several seconds to ~300ms, conversion (results clicked) went up with 30%.
- Senior Java backend engineer **SurveyMonkey**
April 2019 - April 2022 (3y), full time
SurveyMonkey, which acquired Usabilla in 2019, is one of the world's top players for taking surveys. The GetFeedback Platform that I worked on, contributed to that by serving the enterprise market.
As part of the cross-functional platform team, I co-architected and co-developed the message driven microservice architecture powering the platform. I worked on data streaming microservices (*Kafka Connect, Kafka Streams, Elasticsearch*) and created tooling to standardize logging, metrics (*Prometheus, Grafana, AlertManager, Sentry*) and deployment (*Gitlab*) platform wide.
- Senior backend engineer **Usabilla**
July 2017 - March 2019 (1y9m), full time
Usabilla offers Voice of Customer solutions on multiple platforms - website, in-app and email. Feedback and surveys are collected, analyzed and important conclusions are clearly presented to their enterprise customers.
As team tech lead I collaborated with Product, Design and coordinated with other teams. My team's focus was analyzing feedback and surveys and make them searchable (*Postgres, Elasticsearch, Kafka*). I also helped transform the monolithic legacy backend to a modern containerized microservice architecture (*Kubernetes, Docker*).