Robin Mattheussen

Software Engineer · System Engineer

Personal Information

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Work Experience

March 2020 – March 2021	**Backend Engineer** @ **Keyrock**

At Keyrock we developed a globally distributed playform for market-making for cryptocurrencies. Our team developed a scalable engine for algorithmic trading built on Rust, deploying newly developed alhgorithms developed by our researchers. On top of that, we built large pipelines for the influx of large amounts of trade date to provide visibility into the daily trading activity to the other teams and our customers. This system was deployed on a daily basis around the globe on AWS in close cooperation with our various partners.

May 2018 – March 2020	**Cloud Backend Engineer** @ **Reniver**

At Reniver we developed a full-stack solution for an Industrial Internet of Things environment. This meant writing our own firmware for our self-designed multi-sensor hardware, a backend management platform, a networked configuration protocol, along with additional services to integrate "smart" industrial PLCs using OPC UA, and to publish data to various cloud platforms. Our entire stack used C, Scala and .NET.

I was personally responsible for the following:

- Developing the service for integrating real-time data from existing PLCs exposed over OPC UA
- Developing the component responsible for publishing aggregated data to various cloud components
- Maintaining the CI/CD pipelines for all of our code

Nov 2016 – Apr 2018	**Technical Software Engineer** @ **Cegeka**

Developed a large number of backend services using a Java/Spring stack as well as a modern responsive web application using TypeScript/Angular. Everything was developed using a best-practice microservice and CQRS architecture.

Other responsibilities included setting up a large portion of the supporting infrastructure. This included defining infrastructure-as-code using Terraform, deploying and managing several Kubernetes clusters, setting-up and maintaining a CI/CD pipeline using Jenkins/Concourse and supporting tools such as monitoring using Prometheus, ELK, CoScale and Gatling.

The project was developed in an Agile environment using extensive knowledge-sharing, Extreme Programming practices and frequent code-reviews

Apr 2011 – Oct 2016	**IT Medewerker** @ **Ypto N.V.**

Responsible for a wide variety of tasks and projects including managing Windows and Linux systems, custom ETL jobs, setting up log-aggregation systems, development of small tools for in-house use, application monitoring, etc.

Education

2009 – 2010	Bachelor Degree in **Toegepaste Informatica** **Karel de Grote Hogeschool**, Antwerpen
2008 – 2009	Bachelor Degree in **Informatica** **Universiteit Antwerpen**
2002 – 2008	High School Diploma in **Wetenschappen Wiskunde 6** **Sint-Gabriël College**, Boechout

Skills & Competences

Languages:

Dutch:	Mother tongue
English:	Very fluent (reading, writing, speaking)
French:	Intermediate (reading, writing) Basic (speaking)

Skills:

Experience with:	Java, C# (.NET), Go, Scala, Rust, Haskell
Interested in:	Clojure, Common Lisp, Erlang, Elm, F#, OCaml
Tools:	Visual Studio, IntelliJ IDEA, Git, Jenkins, Jira, Docker, Ansible, Terraform, Kubernetes
Databases:	RDBMS (SQL Server, Oracle, Postgres, MySQL), SQL, MongoDB, InfluxDB, Cassandra, CouchDB, Riak, Redis
Operating Systems:	Very solid Linux system knowledge, decent Windows system knowledge
Other:	RabbitMQ, Kafka, MQTT, gRPC, OPC UA

Personal Strengths:

- Excellent at thinking both analytically and critically
- Always eager to learn and share knowledge
- A strong eye for detail
- Constant drive for improvement
- Very well aware of own strengths and points of improvement