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5 min read

Project History Highlights

Briends GmbH   11/2023 - 2024

- Development of a high scalable real-time quiz web application in a event-driven architecture with SvelteKit and Kotlin
- Utilization of Websockets for real-time communication between frontend and backend
- Development of a Kotlin backend with Vert.x for real-time communication and event sourcing
- Enlisted for Discord App Pitches 2024

Technologies

```
Svelte/SvelteKit, Websockets, Kotlin, Vert.x, Docker, NixOS, Terraform, Google Cloud, Kubernetes
```

Klingel Gruppe   2021 - 2023
Senior DevOps & Full-stack Developer in E-Commerce Search Engine Team

- Development and maintenance of a highly scalable product pipeline for indexing in a Solr cluster, ingesting close to 20 million product updates daily
- React Frontend development of the product listings and search engine in close collaboration with the UX design team
- Vue.js Frontend & Scala backend development of the shop backoffice enabling SEO and On-Site manager to configure campaigns, navigation, and product listings
- SRE of the shop nginx reverse proxy serving over 100 million requests daily
- Maintaining and administrating Kubernetes cluster (Administration Interest Group)

Klingel Gruppe (K - Mail Order GmbH & Co. KG) was the third biggest multi-channel mail order company in Germany with a focus on fashion and lifestyle products.

Technologies

```
Scala, React/Preact, Vue.js, Design System in Figma, Solr, AWS, Gitlab CI/CD, Kubernetes, Docker, DataDog, Postgres,
Apache Kafka, NixOS, Nginx, Terraform, Renovate
```

Fielmann AG   2019 – 2020
Tech Lead iOS App of a Tablet Based Centration Team

- Technical Lead Developer in a Research & Development Team of 10 for an Xamarin iOS enterprise app for opticians in 700 stores to measure optometric values of customers
- Conception of quality assurance and testing strategy in close cooperation with opticians to ensure highly critical optometric values are measured precisely
- Accompany team in a successful rollout of the app to over 700 stores in DACH region
- Maintaining a Jenkins pipeline for continuous integration and delivery

Technologies

```
C#, .Net, Xamarin, Jenkins, AWS, iOS, fastlane
```

Fielmann AG   2018 – 2019
Senior DevOps & Full-stack Developer in Product Catalog Team

- Greenfield Kotlin backend & React frontend development of a product catalog for shop assistants
- Setup of a continuous deployment pipeline in concourse CI as a template for other teams
- Mentoring in kubernetes & cloud infrastructure in AWS

Technologies

```
Kotlin, React, Kubernetes, Docker, AWS, Kafka, Concourse CI, Spring Boot, Postgres, NixOs, Terraform
```

Oaktree Technologies GmbH   2012 – 2020
Consultant for Project Onboarding Tablet Based Centration
Consultant for Data-Science Team in Architecture, Automatization and Development Workflow

- Setup of processes meeting European medical device regulations (MDR) regarding software development processes and documentation
- Mentoring data-science team in development workflow for reproducible notebooks and CI/CD

Oaktree Technologies GmbH is a subsidiary of the Fielmann AG. The company is specialized in developing digital solutions for opticians. Centration app is now branded as Qvido.

Technologies

```
Python, NumPy, Jupiter Notebooks, Github Actions, Microsoft Azure
```

Verlag Herder GmbH - Kitalino GmbH   2021

Consultation on Architecture, Automatization, and API Development

- Conceptualization of a microservice architecture for the Kitalino platform for media and data exchange
- Support in transition to a Jenkins CI/CD pipeline (Blue Ocean)
- Development of a new REST API for integration of Kitalino with leading daycare management software
- Accompany Keycloak integration for user management

The Kitalino GmbH is a subsidiary of the Herder Verlag that offers digital solutions for daycare centers and their supporting organizations. As a core feature Kitalino offers digital development documentation of children.

Technologies

```
Distributed Architectures, Keycloak, Docker & Docker Compose, MySQL, Nginx, PHP 7 & Symfony 4, Jenkins Pipeline
```

Briends GmbH Papego - Co-Founder   2012 – present

Co-Founder of a Startup in the Publishing Industry

- Technical lead in architecture and development
- Development of a digital reading app in iOS and Android for printed books
- Architecture design and development of a backend for processing and analyzing book data

Papego was an app for continuing reading printed books digitally, supported by several German publishers. The app was available for iOS and Android and was critically acclaimed by the press. The app was discontinued in 2023.

Technologies

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Haskell, Google Cloud, Cloud Build, Kubernetes, Docker, Nix, React, Angular, Ionic, Svelte, Swift, Kotlin, Postgres,
ElasticSearch, Google Cloud Build CI/CD, NixOS, Terraform
```

Awards

- 2018: German Design Award (Winner: Excellent Communications Design – Apps)
- 2016: Isarnetz Award für Medieninnovation
- 2016: CONTENTshift Award (Börsenverein des Deutschen Buchhandels)
- 2016: Best of „Neuland 2.0" at Leipziger Buchmesse

Qualifications

- IBM: Test and Behavior Driven Development: 2023
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization: 2021
- Neural Networks and Deep Learning: 2020
- Stanford University: Machine Learning: 2020
- Productivity Management: 2007
- Creativity Techniques for Students and Leaders: 2007
- Unit-Testing in Java (JUnit): 2010

Focus

- Functional Programming and Architecture
- Automatisation and Continuous Integration & Delivery
- Cloud Architecture, Distributed Systems & Microservice Architecture
- Self-Organizing Agile Teams

References

- Github Profile
- Curriculum Vitae (pdf)
- Curriculum Vitae (docx)
- LinkedIn Profile
- Xing Profile

Reference Contacts

- Klingel Gruppe: Alexander Baron von Buchholz
- Fielmann AG: Philipp Schmidtbauer
- Oaktree Technologies GmbH: Melinda Koal
- Verlag Herder/Kitalino GmbH: Silas Töpfer