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Project History Highlights

Medosync Ltd

10/2024 – 05/2025

Senior DevOps & Full-stack Developer

- Support maintenance of PHP practice management software handling appointments, billing, and insurance claims.
- Develop and maintain hospital software for digital billing and claims processing using Rust, Python, and Vue.js.
- Maintain and extend an Express-GraphQL backend for insurance claims management, including dependency updates and delivery pipeline setup.
- API migration to an OpenAPI specification generated TypeScript client.

Technologies

Vue TypeScript Jest Cypress OpenAPI Rust Python GitHub Action Azure Cloud Kubernetes PHP Node.js Express
GraphQL PostgreSQL

Briends GmbH

11/2023 – 2024

- Inhouse Development of a high scalable real-time quiz web application in an 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 TypeScript Jest Playwright 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.
- Preact Frontend development of the product listings, search engine, and product detail page.
- Developing new features and maintaining the shop frontend, integrating the company design system.
- Adding Jest tests for new components not covered by the design system.
- 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

JavaScript Preact Jest Selenium Vue.js Design System in Figma Scala 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.
- Support in TypeScript frontend development with React and Redux.
- Setup of a continuous deployment pipeline in concourse CI as a template for other teams.
- Mentoring in kubernetes & cloud infrastructure in AWS.

Technologies

TypeScript	React	Redux	Jest	Cypress	Kotlin	Kubernetes	Docker	AWS	Kafka	Concourse CI	Spring Boot	Postgres
NixOS	Terraform											

Oaktree Technologies GmbH

2019 – 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	Jupyter Notebooks	Github Actions	Microsoft Azure
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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.
- Training in frontend testing with Jest.

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

Jest	JavaScript	Distributed Architectures	Keycloak	Docker & Docker Compose	MySQL	Nginx	PHP 7 & Symfony 4
Jenkins Pipeline							

Briends GmbH Papego – Co-Founder

2012 – 2023

Co-Founder of a Startup in the Publishing Industry

- Technical lead in architecture and development.
- Greenfield development of a digital reading app in iOS and Android using Angular with TypeScript (Ionic framework).
- 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

TypeScript	Angular	Ionic	Jest	Haskell	Google Cloud	Cloud Build	Kubernetes	Docker	Nix	React	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**
- 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
- Automatisatation and Continuous Integration & Delivery
- Cloud Architecture, Distributed Systems & Microservice Architecture
- Self-Organized 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](#)