Jan-Philip Loos

- Full-Stack Developer & DevOps Engineer
- 15+ years of experience in software development
- MSc: Computer Science

Concepts & Methodologies

- **Functional Programming and Architecture**
- **Automation and Continuous Integration & Delivery:** Github Actions, Gitlab CI/CD, Jenkins CI/Pipelines, Google Cloud Build, etc.
- **Cloud Architecture, Distributed Systems, Microservice Architecture:** Focus on resilient and scalable systems
- **Test and Behavior Driven Development**
- **Machine Learning and Deep Learning Basics**
- **Data-Pipelines, ETL, Stream-Processing**
- **Asynchronous & Concurrent Programming**
- **Infrastructure as Code:** Terraform/OpenTofu, TerraGrunt, Nix/NixOS
- **API Design:** RESTful, GraphQL
- **Agile Methodologies:** Kanban, Lean, XP, Scrum

Programming Languages & Frameworks

- **JVM:** Kotlin, Scala & Scala Akka, Java Spring Boot
- **Web:** React/Preact, Svelte/SvelteKit, HTMX
- **.Net:** C#, Xamarin
- **Python:** Jupyter Notebooks, NumPy, pandas
- **PHP:** Symphony
- **Functional Systems Configuration:** NixOS

Platforms and Infrastructure

- **Cloud Platforms:** AWS, Google Cloud, Microsoft Azure
- **Infrastructure as Code:** Terraform/OpenTofu, TerraGrunt, Nix/NixOS
- **Containerization & Clusterization:** Kubernetes, Docker/Docker Com pose
- **Databases and Event Streaming:** Postgres, Google Datastore, Elastic Search, Apache Solr, Kafka

Recent Project History

- **Klingel Gruppe (2021 - 2023):** Development and maintenance of a scalable product pipeline for indexing in a Solr cluster; front and back end development; SRE of the shop reverse proxy.
- **Fielmann AG (2019 - 2020):** Technical Lead Developer for an iOS enterprise app for opticians to measure optometric values.
- **Oaktree Technologies GmbH (2012 - 2020):** Supported the data science team in architecture, automation, and workflow with tablet-based centration.
- **Verlag Herder GmbH - Kitalino GmbH (2021):** Provided consultation on architecture, automation, and API development for a digital daycare center solution.
- **Briends GmbH Papego - Co-Founder (2012 - Present):** Technical lead in architecture and development of a digital reading app for printed books.

Project History Highlights

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, navi gation, 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, Design System in Figma, Solr, AWS, Gitlab CI/CD, Kubernetes, Docker, 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 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

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.

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

Technologies

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

Verlag Herder GmbH/Kitalino GmbH 2021

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.

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

Technologies

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

Briends GmbH Papego - Co-Founder 2012 – present

Papego was an award-winning app for continuing reading printed books digitally. The app was available for iOS and Android and was critically acclaimed by the press. The app was discontinued in 2023.

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

Technologies

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

Additional information

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

Reference Contacts

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