

# Fritz Stelluto, Berlin

## Senior Machine Learning Engineer

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Hello, I'm Fritz, an experienced engineer based in Berlin. Currently I am working at Trawa, focusing on service development and ML Ops. Throughout my career, I have plied my trade as both a full-stack developer and a technical manager.

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### Work History

#### Trawa / Senior Machine Learning Engineer, Scam Prevention Team

May 2024 - Present, Berlin

- Devising and implementing data ingestion and training pipelines

#### Wayfair / Senior Machine Learning Engineer, Scam Prevention Team

Jan 2022 - Apr 2024, Berlin

- Implemented and maintained Python-based batch ingestion pipelines using Kubeflow. Integrated data from BigQuery and neo4j into Vertex AI Feature Store, reducing scam risk for Wayfair as a percentage of revenue from 1.4% to 1.2%.
- Delivered access to model outputs for business stakeholders via robust REST endpoints (FastAPI on Kubernetes) and distributed pub-sub systems (Kafka, Google PubSub, Scribe), averting an estimated \$47M in annual customer scams.
- Oversaw pipelines for training and deploying classification models, leveraging Buildkite on GCP (Google Cloud Platform), greatly reducing turnaround time.
- Managed Arize and Datadog monitoring pipelines, transitioning from reactive responses to failures and model degradation to proactive identification and resolution of issues before impacting business stakeholders.
- Partnered with business stakeholders to refine requirements and monitor project progress, ensuring the successful achievement of KPIs.
- Guided data scientists in software engineering practices and the team in agile methodologies, empowering them to independently deploy their code.
- Negotiated SLOs (Service Level Objectives) with other engineering teams.
- Played a pivotal role in a cost reduction initiative that slashed GCP costs by 50% in the Data Science department.

#### Advertima / Engineering Manager, Smart Signage Team

Jan 2021 - Dec 2021, Berlin

- Oversaw the Smart Signage team, responsible for maintaining and enhancing Advertima's flagship in-store advertising product, consisting of over 1200 distributed edge devices and sensors, as well as managing the AWS infrastructure and services, securing an annual income of approximately CHF1M.
- Played a key role in the development of the managing console for the devices (Django), the service responsible for routing the output of computer vision models to the ETL pipeline (Node.js/NestJS), and Apache Spark jobs providing reports to clients.
- Championed cost reduction initiatives, keeping our AWS costs under tight control.

## **Advertima / Senior Software Engineer, Cashier-less Store Demo**

Apr 2020 - Dec 2020, Berlin

- Introduced Agile practices to the team, ensuring successful delivery of the Cashier-less Store Demo which secured CHF15M funding.
- Led the development of critical components for the Cashier-less Store Demo, including systems for controlling store gates (Node.js), interfacing with payment systems (Flask), managing the catalog (Django), and implementing a reinforcement learning system for operator label assignments (Flask backend + Svelte frontend).

## **Tourlane / Senior Software Engineer, Nov 2019 - Feb 2020, Berlin**

Worked on developing multilingual static sites for this travel operator using Gatsby and the JAM stack. Unfortunately, the tenure was cut short due to the impact of COVID.

## **Flaconi / Technical Lead**

Jun 2018 - Jun 2019, Berlin

- Facilitated the transition from a PHP monolith to a suite of microservices (primarily Node.js) orchestrated by a GraphQL gateway, enhancing system resilience and virtually eliminating downtime.
- Managed data in PostgreSQL and Redis stores, oversaw UI development (React), and delved into ML Engineering by creating, maintaining, and deploying a recommendation service in collaboration with the data science team.

## **pro!vision / Senior Software Engineer, Apr 2013 - May 2018, Berlin**

Developed internal libraries and user interfaces to support various CMS and R&D projects for prestigious clients including Volkswagen, Adobe, Daimler, Bentley, Aldi, Mini, Siemens.

## **AKQA / Senior Software Engineer, Oct 2010 - Mar 2013, Berlin**

Constructed user interfaces across a diverse array of projects for Volkswagen and other clients.

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### **Skills**

**Python** Django, FastAPI, Flask, Pandas, NumPy, Matplotlib, Jupyter, PIL

**Javascript / Typescript** Typescript, React, Node.js, Svelte, Astro, vanilla, Express, Fastify, NestJs, Gatsby, D3, CSS-in-JS

**Data** SQL (PostgreSQL, MS-SQL), Big Query, MongoDB, GraphQL, Redis

**ML Ops** Kubeflow, Vertex AI, Kubernetes, Docker, Terraform, Grafana, Prometheus, Kibana, GCP, AWS

**Management** Project Management, Team Leadership, Mentoring, Hiring, Conflict Resolution, Agile Methodologies, Stakeholder Coordination

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### **Education**

**University College London / B.Eng Electronic Eng. with Computer Science**

### **Languages**

English, Italian (fluent), German (intermediate)